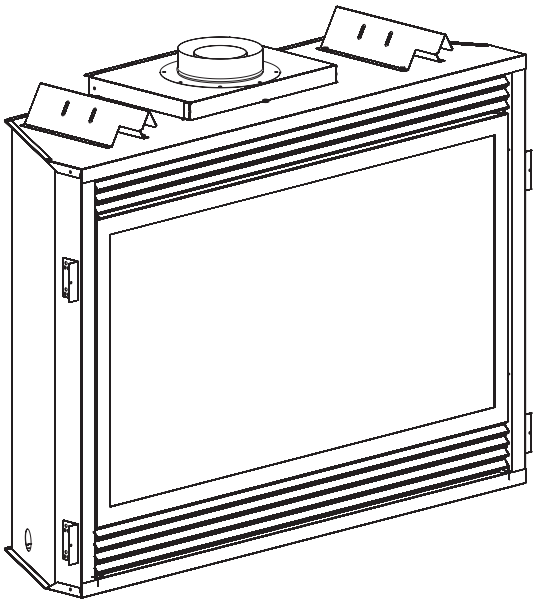
INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

Direct Vent Zero Clearance Gas Fireplace Heater



DIRECT VENT GAS FIREPLACE HEATER

FOR OEM INSTALLATION IN MANUFACTURED HOMES

MODELS

DVD32FP34N-1 DVD36FP34N-1

GAS-FIRED

C UL US

LISTED

UL FILE NO. MH30033

Installer: Leave this manual with the appliance.
Consumer: Retain this manual for future reference.

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

— Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed as an OEM installation in a manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, Title 24 CFR, Part 3280 or Standard for Installation in Mobile Homes, CAN/CSA Z240 MH.

This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

WARNING: If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness.

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IMPORTANT SAFETY INFORMATION

Before enclosing the vent pipe assembly, operate the appliance to ensure it is venting properly.

DO NOT OPERATE THIS APPLIANCE WITHOUT GLASS FRONT PANEL INSTALLED

- **If this appliance is installed directly on carpeting, tile or other combustible material other than wood flooring the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.**

  The base referred to above does not mean the fireproof base as used on wood stoves. The protection is for rugs that are extremely thick and light colored tile.
- **Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.**
- **Young children should be carefully supervised when they are in the same room as the appliance.**
- **Clothing or other flammable material should not be placed on or near the appliance.**
- **Adequate accessibility clearances for servicing and proper operation.**
- **This appliance must not share or be connected to a flue serving a separate solid-fuel burning appliance.**
- **Keep the area around your appliance clear of combustible materials, gasoline and other flammable vapor and liquids.**
- **Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this appliance.**
- **The flow of combustion and ventilation air must not be obstructed in any way.**

- Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.
- The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service person.
- Keep burner and control compartment clean.
- Vent cap is hot while fireplace is in operation.
- Installation and repair should be done by a QUALIFIED SERVICE PERSON. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
- DO NOT put anything around the fireplace that will obstruct the flow of ventilation air.
- Clearance in accordance with local installation codes and the requirements of the gas supplier.
- DO keep the appliance area clear and free from combustible material, gasoline and other flammable vapors and liquids.
- DO examine venting system periodically and replace damaged parts.
- DO make a periodic visual check of pilot and burners. Clean and replace damaged parts.
- CAUTION: The glass used in your fireplace is tempered glass. If the glass is cracked or damaged in any way, it should be replaced only with a complete glass frame assembly from Empire. See parts list on Page 40 for ordering.
- DO NOT use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
- Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.

SAFETY INFORMATION FOR USERS OF LP GAS

Propane (LP-Gas) is a flammable gas which can cause fires and explosions. In its natural state, propane is odorless and colorless. You may not know all the following safety precautions which can protect both you and your family from an accident. Read them carefully now, then review them point by point with the members of your household. Someday when there may not be a minute to lose, everyone's safety will depend on knowing exactly what to do. If, after reading the following information, you feel you still need more information, please contact your gas supplier.

LP-GAS WARNING ODOR

If a gas leak happens, you should be able to smell the gas because of the odorant put in the LP-Gas. That's your signal to go into immediate action!

- Do not operate electric switches, light matches, use your phone. Do not do anything that could ignite the gas.
- Get everyone out of the building, vehicle, trailer, or area. Do that IMMEDIATELY.
- Close all gas tank or cylinder supply valves.
- LP-Gas is heavier than air and may settle in low areas such as basements. When you have reason to suspect a gas leak, keep out of basements and other low areas. Stay out until firefighters declare them to be safe.
- Use your neighbor's phone and call a trained LP-Gas service person and the fire department. Even though you may not continue to smell gas, do not turn on the gas again. Do not re-enter the building, vehicle, trailer, or area.
- **Finally,** let the service man and firefighters check for escaped gas. Have them air out the area before you return. Properly trained LP-Gas service people should repair the leak, then check and relight the gas appliance for you.

NO ODOR DETECTED - ODOR FADE

Some people cannot smell well. Some people cannot smell the odor of the chemical put into the gas. You must find out if you can smell the odorant in propane. Smoking can decrease your ability to smell. Being around an odor for a time can affect your sensitivity or ability to detect that odor. Sometimes other odors in the area mask the gas odor. People may not smell the gas odor or their minds are on something else. Thinking about smelling a gas odor can make it easier to smell.

The odorant in LP-Gas is colorless, and it can fade under some circumstances. For example, if there is an underground leak, the movement of the gas through soil can filter the odorant. Odorants in LP-Gas also are subject to oxidation. This fading can occur if there is rust inside the storage tank or in iron gas pipes.

The odorant in escaped gas can adsorb or absorb onto or into walls, masonry and other materials and fabrics in a room. That will take some of the odorant out of the gas, reducing its odor intensity.

LP-Gas may stratify in a closed area, and the odor intensity could vary at different levels. Since it is heavier than air, there may be more odor at lower levels. Always be sensitive to the slightest gas odor. If you detect any odor, treat it as a serious leak. Immediately go into action as instructed earlier.

SOME POINTS TO REMEMBER

- Learn to recognize the odor of LP-Gas. Your local LP-Gas Dealer can give you a "Scratch and Sniff" pamphlet. Use it to find out what the propane odor smells like. If you suspect that your LP-Gas has a weak or abnormal odor, call your LP-Gas Dealer.
- If you are not qualified, do not light pilot lights, perform service, or make adjustments to appliances on the LP-Gas system. If you are qualified, consciously think about the odor of LP-Gas prior to and while lighting pilot lights or performing service or making adjustments.
- Sometimes a basement or a closed-up house has a musty smell that can cover up the LP-Gas odor. Do not try to light pilot lights, perform service, or make adjustments in an area where the conditions are such that you may not detect the odor if there has been a leak of LP-Gas.
- Odor fade, due to oxidation by rust or adsorption on walls of new cylinders and tanks, is possible. Therefore, people should be particularly alert and careful when new tanks or cylinders are placed in service. Odor fade can occur in new tanks, or reinstalled old tanks, if they are filled and allowed to set too long before refilling. Cylinders and tanks which have been out of service for a time may develop internal rust which will cause odor fade. If such conditions are suspected to exist, a periodic sniff test of the gas is advisable. If you have any question about the gas odor, call your LP-Gas dealer. A periodic sniff test of the LP-Gas is a good safety measure under any condition.
- If, at any time, you do not smell the LP-Gas odorant and you think you should, assume you have a leak. Then take the same immediate action recommended above for the occasion when you do detect the odorized LP-Gas.
- If you experience a complete "gas out," (the container is under no vapor pressure), turn the tank valve off immediately. If the container valve is left on, the container may draw in some air through openings such as pilot light orifices. If this occurs, some new internal rusting could occur. If the valve is left open, then treat the container as a new tank. Always be sure your container is under vapor pressure by turning it off at the container before it goes completely empty or having it refilled before it is completely empty.

INTRODUCTION

Instructions to Installer

1. Installer must leave instruction manual with owner after installation.
2. Installer must have owner fill out and mail warranty card supplied with the fireplace.
3. Installer should show owner how to start and operate the fireplace.

This direct vent gas fireplace heater is designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building. The information contained in this manual pertains to all models and gas control systems unless otherwise noted.

Warning: This unit is not for use with solid fuels.

Appliance Certification

This fireplace is design certified in accordance with American National Standard/CSA Standard ANSI Z21.88/CSA 2.33 and by Underwriters Laboratories as a Direct Vent Gas Fireplace Heater and shall be installed according to these instructions.

This appliance must be installed in accordance with local codes, if any; if none, follow the NATIONAL FUEL GAS CODE, ANSI Z223.1

This appliance must be installed in accordance with the MANUFACTURED HOME CONSTRUCTION and SAFETY STANDARD, Title 24 CFR, Part 3280, or when such a standard is not applicable, and SAFETY STANDARD, Title 24 CFR, Part 3280, or when such a standard is not applicable, ANSI/NCSBCS A225.1/NFPA, Manufactured Home Installations Standard.

Consult your local building code agency, prior to installation, to ensure compliance with local codes-including permits and inspections.

The fireplace, when installed, must be electrically grounded in accordance with local codes or, in absence of local codes, with the National Electric Code ANSI/NFPA 70, if an external electrical source is utilized.

Qualified Installing Agency

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term “qualified agency” means any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation or replacement of gas piping or (b) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required and has complied with all the requirements of the authority having jurisdiction.

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54* Natural Gas and Propane Installation Code, or CSA B149.1 in Canada. *Available from the American National Standards Institute, Inc. 11 West 42nd St., New York, N.Y. 10036.

Warning: ANY CHANGE TO THIS FIREPLACE OR ITS CONTROLS CAN BE DANGEROUS.
Improper installation or use of the fireplace can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.

Any alteration of the original design, installed other than as shown in these instructions or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.

Important

All correspondence should refer to complete Model Number, Serial Number and type of gas.

High Altitude

When installing this unit at an elevation above 2000 feet (in the United States) it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Generally, input should be reduced 4 percent for each 1000 feet above sea level. However, if the heating value of the gas has been reduced, this general rule may not apply. Check with local gas utility for proper orifice size identification.

Canadian High Altitude

Altitude: 0-4500 feet (0-1370 m)

When installing this unit at an elevation above 4500 feet (in Canada), check with local authorities.

Consult your local gas utility for assistance in determining the proper orifice for location.

Preparation

This direct vent gas fireplace and its components are tested and safe when installed in accordance with this Installation Manual. Report to your dealer any parts damaged in shipment, specifically check glass condition. Do not install unit with damaged, incomplete, or substitute parts. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

The warranty will be voided by, and the warranter disclaims any responsibility for the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Empire Comfort Systems, Inc.
- Improper positioning of the logs, glass door or decorative rock.
- Installation and/or use of any component part not manufactured or approved by manufacturer.

Bedroom Applications

An optional door switch kit, Model DVX, is available as required in some jurisdictions for fireplace installations in a bedroom.

SPECIFICATIONS

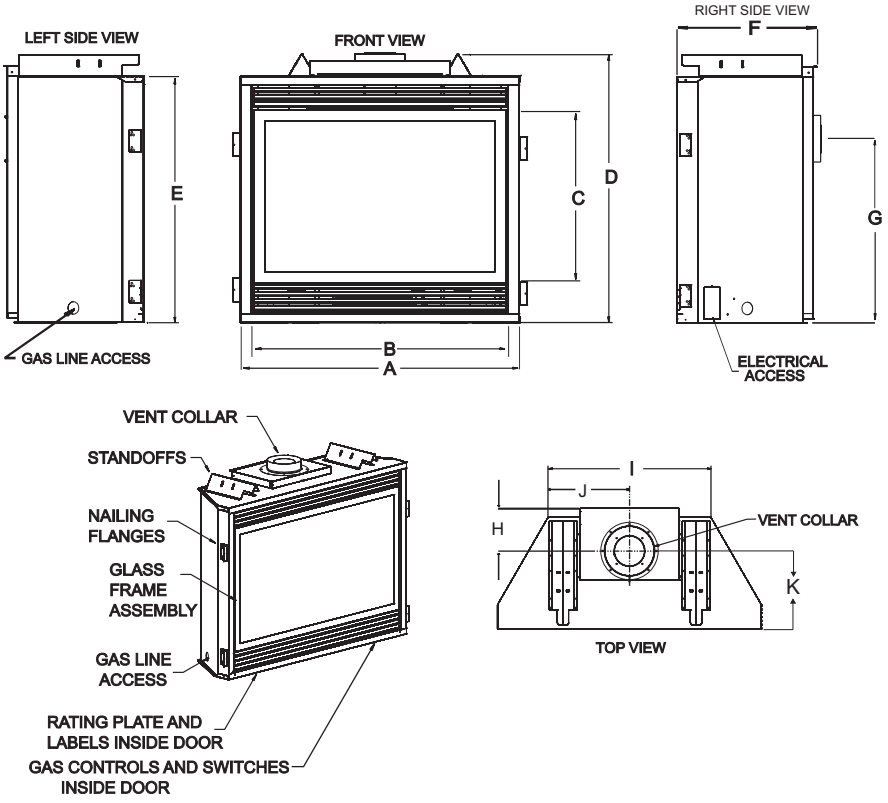
	ADVD32	ADVD36
Input Btu/hr Maximum	18,000	20,000
Btu/hr Minimum (millivolt only)	14,000	14,000
KWH (Maximum)	5.3	5.9
(Minimum)	4.1	4.1
NAT.		
Orifice	#46 (.081") P-254	2.10 mm P-288
Air Shutter Opening	1/16"(1.6 mm)	1/16"(1.6 mm)
LP		
Orifice	#56 (.0465") P-287	#55 (.052") P-182
Air Shutter Opening	1/4"(6.3 mm)	5/16"(7.9 mm)
Height without standoff	32 3/4"(832 mm)	32 3/4"(832 mm)
Width	34"(864 mm)	37"(940 mm)
Depth	16 3/8"(416 mm)	16 3/8"(416 mm)
Gas Inlet Shutoff Valve (Pipe)	1/2 NPT	1/2 NPT

NOTE: Air shutter settings are factory minimum settings. Some venting configurations may require minor air shutter adjustments for optimum performance.

Venting Options	Description
DVVK-4TSP (DVVK-4TS)	Top Vent Kit (Horz.) - 4½" to 6" wall thickness
DVVK-4TP (DVVK-4T)	Top Vent Kit (Horz.) - 8" to 12" wall thickness
DVVK-4RP (DVVK-4R)	Rear Vent Kit (Horz.) - 5" to 7" wall thickness
DVVK-4VP (DVVK-4V)	Vertical Vent Kit
DVVK-4F	Horizontal Flex Vent Kit (4' Flex)
DVVK-4RE	Horizontal Round Termination (wall thickness up to 11 7/16")
DV822	Vinyl Siding Kit for DVVK-4RE

Remote Control Options & Accessories	Description
FRBC	Millivolt Batt. Remote ON/OFF
FRBTC	Millivolt Batt. Remote T-Stat
TMW	Millivolt Wireless Wall Thermostat
TRW	Millivolt Reed Switch Wall Thermostat
FWS-1	Direct Ignition/Millivolt Wall Switch

FIREPLACE DIMENSIONS



Dim	ADVD32	ADVD36
A	34" 863 mm	37" 939 mm
B	31" 787 mm	34" 863 mm
C	23 1/16" 585 mm	23 1/16" 585 mm
D	35 5/8" 905 mm	35 5/8" 905 mm
E	32 3/4" 832 mm	32 3/4" 832 mm
F	16 3/8" 416 mm	16 3/8" 416 mm
G	24 1/2" 622 mm	24 1/2" 622 mm
H	7 1/8" 181 mm	7 1/8" 181 mm
I	21 1/2" 546 mm	24 1/2" 622 mm
J	10 3/4" 273 mm	12 1/4" 311 mm
K	9 1/4" 235 mm	9 1/4" 235 mm

Figure 1

CLEARANCES

Clearance to Combustibles	
Back	0" (0 mm)
Side	0" (0 mm)
Floor	0" (0 mm)
Top Stand-off	0" (0 mm)
Top Framing Edge	3" (76 mm)

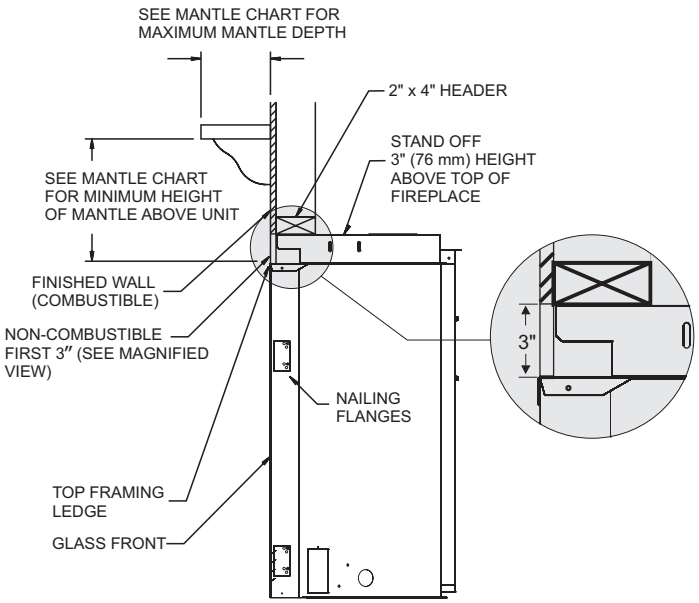

SEE MANTLE CHART FOR MAXIMUM MANTLE DEPTH
2" x 4" HEADER
STAND OFF 3" (76 mm) HEIGHT ABOVE TOP OF FIREPLACE
SEE MANTLE CHART FOR MINIMUM HEIGHT OF MANTLE ABOVE UNIT
FINISHED WALL (COMBUSTIBLE)
NON-COMBUSTIBLE FIRST 3″ (SEE MAGNIFIED VIEW)
3"
NAILING FLANGES
TOP FRAMING LEDGE
GLASS FRONT

Figure 2

Combustible Material

No greeting cards, stockings or ornamentation of any type should be placed on or attached to the fireplace. The flow of heat can ignite combustibles.

Note: When using Empire EMBF, UMC, and UMF Series Full Mantels with ADVD32 and ADVD36 Series Fireplaces, combustible clearance may be reduced to 1" clearance from top edge of fireplace face.

Mantel Chart (Figure 3)

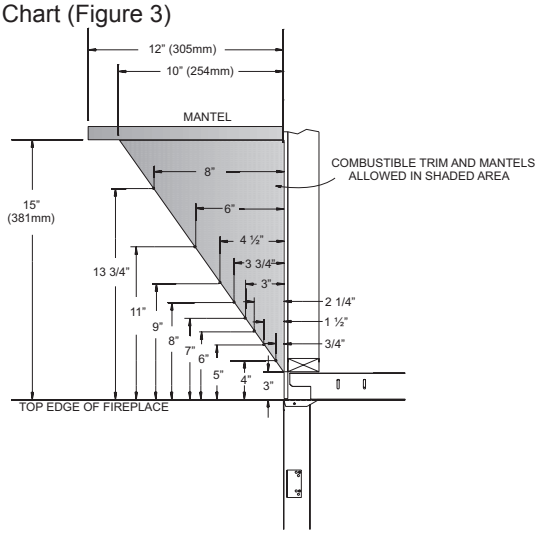


Figure 3

Clearances (Figure 4)

Clearance from top front side of fireplace to ceiling is 36".

Clearance from side of fireplace to adjacent sidewall is 6".

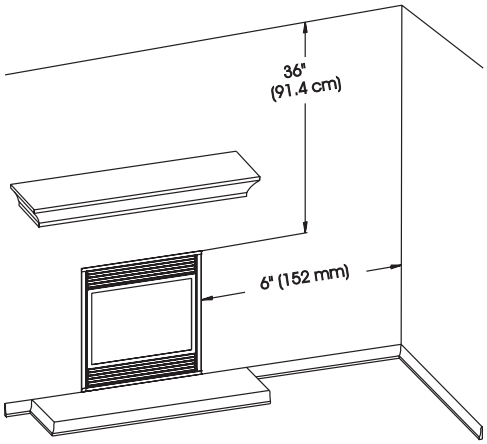


Figure 4

LOCATING FIREPLACE

Note: Island (C) and Room Divider (D) installation is possible as long as the horizontal portion of the vent system (H) does not exceed 20 feet with a minimum vertical run of 8 feet. See details in Venting Section.

When you install your Direct Vent Fireplace in (D) Room divider or (E) Flat on wall corner positions, a minimum of 6 inches clearance must be maintained from the perpendicular wall and the front edge of the appliance.

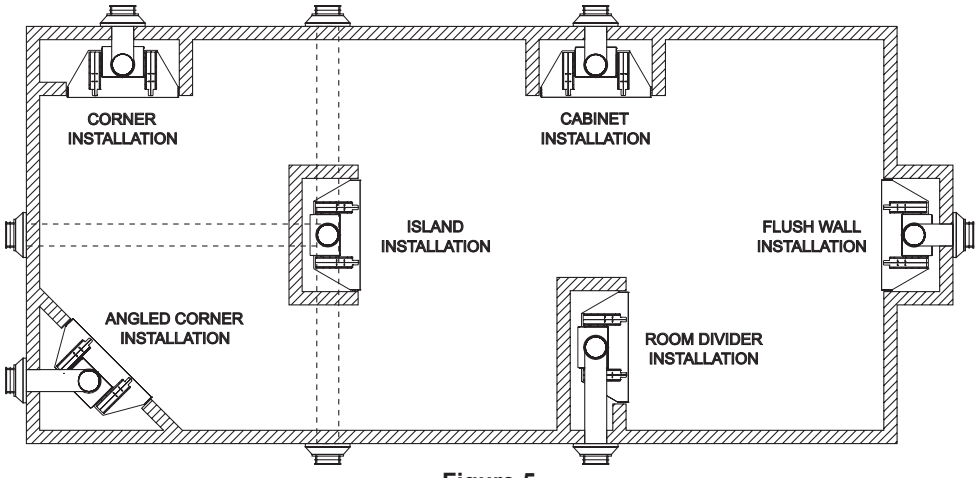


Figure 5

GAS SUPPLY

The gas pipeline can be brought in through the bottom right or left side of the appliance. Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

Recommended Gas Pipe Diameter				
Pipe Length	Schedule 40 Pipe Inside Diameter		Tubing, Type L Outside Diameter	
	Nat.	L.P.	Nat.	L.P.
0-10ft 0-3m	1/2" 12.7 mm	3/8" 9.5 mm	1/2" 12.7 mm	3/8" 9.5 mm
11-40ft 4-12m	1/2" 12.7 mm	1/2" 12.7 mm	5/8" 15.9 mm	1/2" 12.7 mm
41-100ft 13-30m	1/2" 12.7 mm	1/2" 12.7 mm	3/4" 19 mm	1/2" 12.7 mm
101-150ft 31-46m	3/4" 19 mm	1/2" 12.7 mm	7/8" 22.2 mm	3/4" 1.9 mm

Note: Never use plastic pipe. Check to confirm whether your local codes allow copper tubing or galvanized.
Note: Since some municipalities have additional local codes, it is always best to consult your local authority and installation code.

The use of the following gas connectors is recommended:

— ANS Z21.24 Appliance Connectors of Corrugated Metal Tubing and Fittings.

— ANS Z21.45 Assembled Flexible Appliance Connectors of Other Than All-Metal Construction

The above connectors may be used if acceptable by the authority having jurisdiction. The state of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

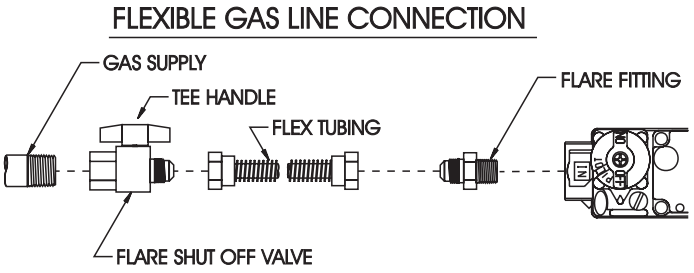


Figure 6

	Gas Supply Pressure (inches w.c.)		
	Minimum	Normal	Maximum
Natural Gas	4.5"	7.0"	14.0"
LP (Propane)	10.8"	11.0"	14.0"
	Manifold Pressure (inches w.c.)		
	Normal (HI)		
Natural Gas	3.5"		
LP (Propane)	10.0"		

Installing a New Main Gas Cock

Each appliance should have its own manual gas cock.

A manual main gas cock should be located in the vicinity of the unit. Where none exists, or where its size or location is not adequate, contact your local authorized installer for installation or relocation.

Compounds used on threaded joints of gas piping shall be resistant to the action of liquefied petroleum gases. The gas lines must be checked for leaks by the installer. This should be done with a soap solution watching for bubbles on all exposed connections, and if unexposed, a pressure test should be made.

Never use an exposed flame to check for leaks. Appliance must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with appliance connected; control valve will sustain damage!

NOTE: The millivolt gas controls are equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connector use only approved fittings.

The appliance and it's individual shut off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Attention! If one of the procedures results in pressures in excess of 1/2 psig (14" w.c.) (3.5 kPa) on the fireplace gas valve, it will result in a hazardous condition.

Checking Manifold Pressures

Both Propane and Natural gas valves have a built-in pressure regulator in the gas valve. Natural gas models will have a manifold pressure of approximately 3.5" w.c. (.871 kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 4.5" w.c. (1.120 kPa) for the purpose of input adjustment to a maximum of 14.0" w.c. (3.484 kPa). Propane gas models will have a manifold pressure approximately 10.0" w.c. (2.49 kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 10.8" w.c. (2.68 kPa) for the purpose of input adjustment to a maximum of 14.0" w.c. (3.484 kPa).

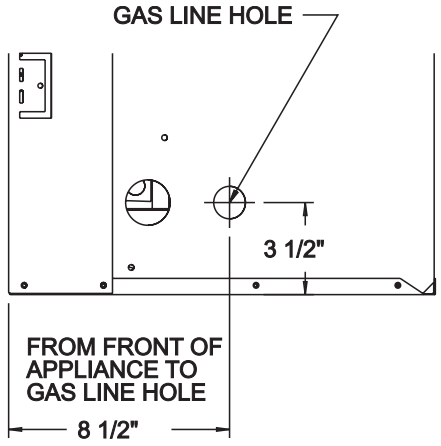
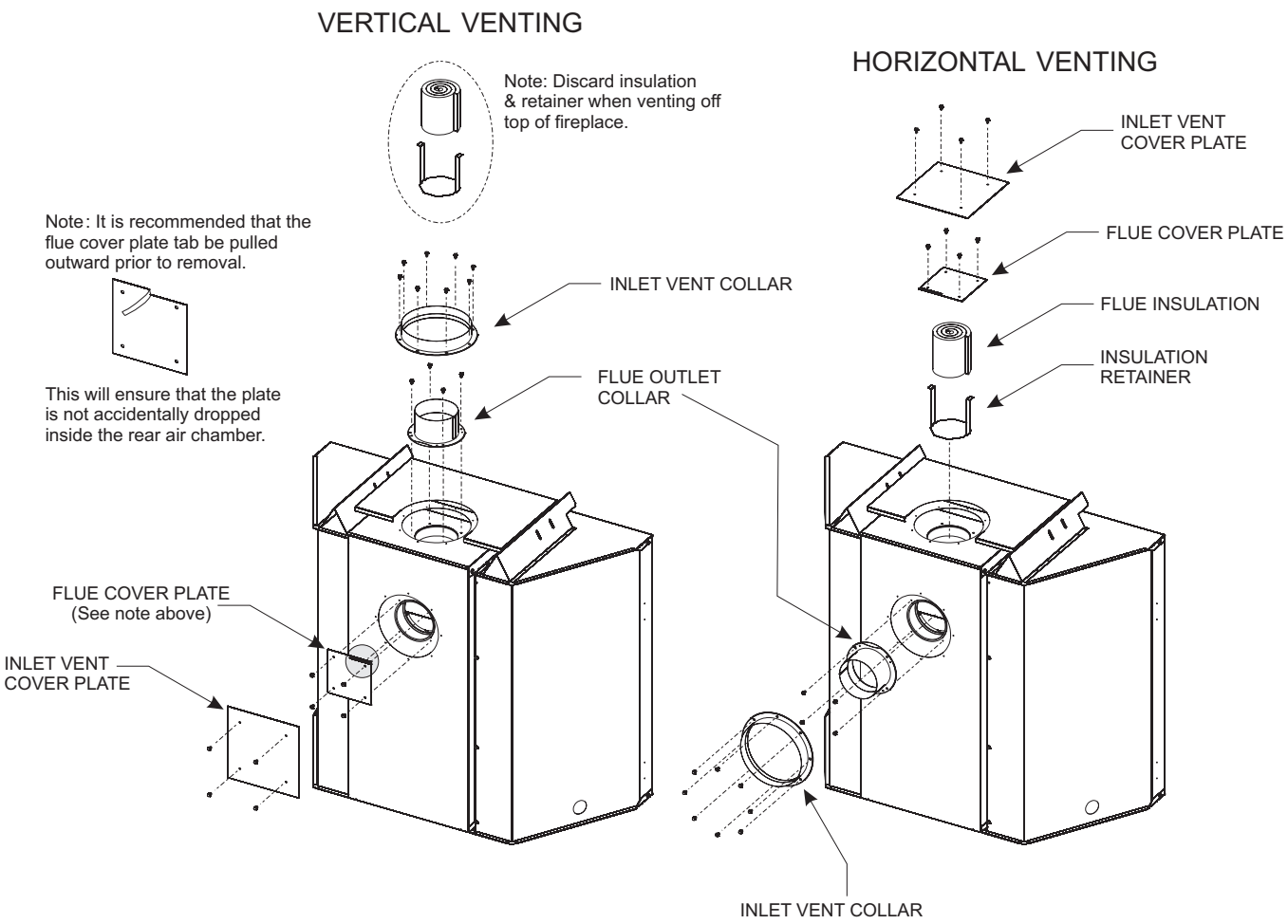


Figure 7

REAR VENT CONVERSION


VERTICAL VENTING
HORIZONTAL VENTING
Note: Discard insulation & retainer when venting off top of fireplace.
Note: It is recommended that the flue cover plate tab be pulled outward prior to removal.
This will ensure that the plate is not accidentally dropped inside the rear air chamber.
INLET VENT COLLAR
FLUE OUTLET COLLAR
FLUE COVER PLATE (See note above)
INLET VENT COVER PLATE
INLET VENT COVER PLATE
FLUE COVER PLATE
FLUE INSULATION
INSULATION RETAINER
INLET VENT COLLAR

Converting flue take-off to rear venting

When switching out the flue and inlet vent collars to run horizontally off the rear vent, the following steps must be taken.

1. Remove the inlet vent collar (8 screws) and flue collar (4 screws) from the top of the fireplace, and set to the side.
2. Remove the inlet cover plate and flue cover plate located on the back of the fireplace. These will be used to close the top flue and inlet openings.
3. Insert the insulation retainer bracket and insulation into the top flue pipe before reinstalling the flue cover plate over the top flue with 4 screws.
4. Reinstall the inlet cover plate over the top inlet opening with 4 screws. See illustration above..
5. Install the flue collar assembly to the rear flue with 4 screws.
6. Install the inlet vent collar to the rear of the fireplace with 8 screws.
7. This completes the conversion for a rear vent application.

   Note: for top vented installations, the insulation and retainer are to be removed from the flue pipe and discarded.

VENT SYSTEMS

The following vent systems are acceptable for use with the ADVD series fireplaces:
Simpson Duravent® GS 4" - 6 ⅝"
American Metal Products 4" - 6 ⅝"
Selkirk Direct-Temp® 4" - 6 ⅝"
Security Secure Vent® 4" - 6 ⅝"
Empire Flex Vent Kit(s) (Magnaflex) 4" - 7"
Empire Horizontal Round Termination Kit(s) 4" - 6 ⅝"
(For Empire Venting Kit numbers refer to page 6, specifications section.)

INSTALLATION

Framing and Finishing

1. Choose unit location.
2. Frame in fireplace with a header across the top. It is important to allow for finished face when setting the depth of the frame.
3. Attach fireplace to frame using adjustable frame. Preset depth to suit facing material (adjustable to 1/2", 5/8" or 3/4" depths).
4. Use (8) 1/2" hex-head screws supplied in hardware package, to screw through slotted holes in drywall strip and then screw into pre-drilled holes on fireplace side. Measure from face of fireplace to face of drywall strip to determine final depth.

Vent Pipe Clearance

Note: Maintain one inch (1") of clearance around vertical vent pipe. See Fig. 9A. For horizontal vent, maintain a minimum 1" clearance to the bottom and sides of the vent, and 3" clearance to combustibles above the vent pipe. See Fig. 9B

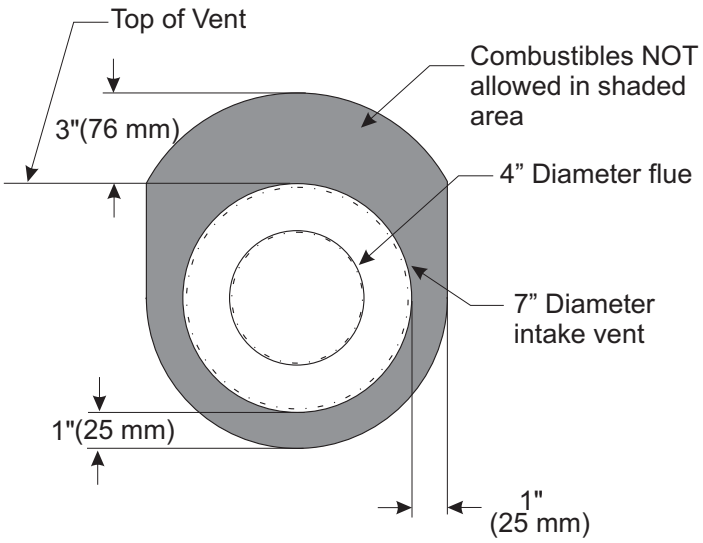


Figure 9B

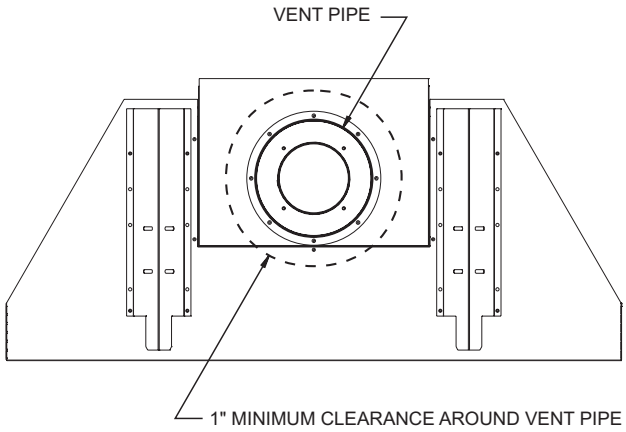


Figure 9A

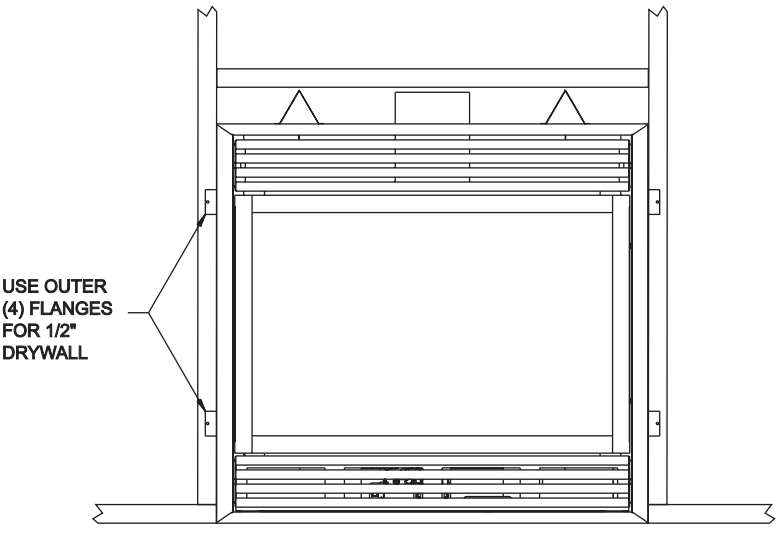
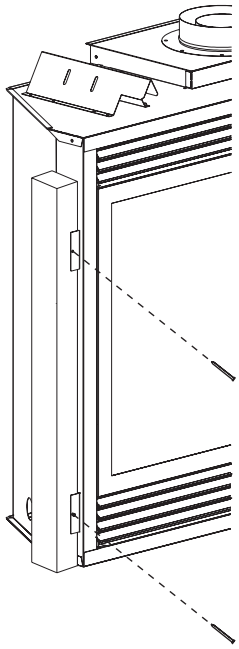


Figure 8

INSTALLATION (continued)

Flush Mount Mantel Installation (Figure 10)
The fireplace must extend 3/4" beyond finished wall surface when using a flush mount mantel. Refer to Figure 10 to locate nailing flanges on fireplace sides. Mark and drill two (2) 1/8" holes into fireplace side to mount each nailing flange. Use eight (8) 1/2" hex-head screws supplied in hardware package to attach nailing flanges to fireplace sides.



NAIL OR OTHER SUITABLE FASTENER

Figure 10

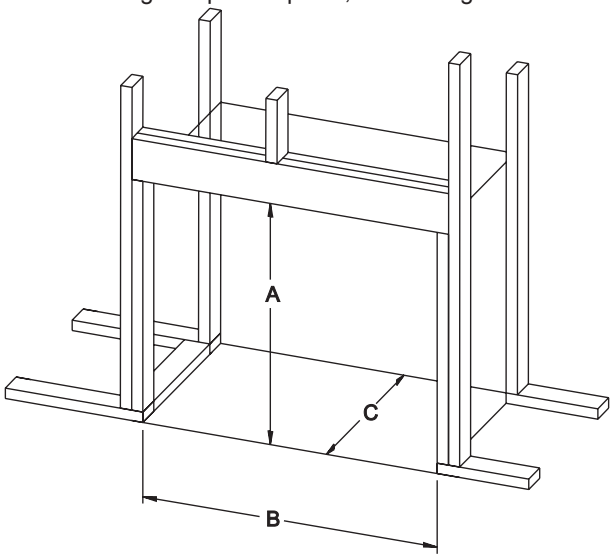
Attention: When fireplace is installed in optional full cabinet mantel or corner mantel the (4) four nailing flanges shown in Figure 10 will not be installed on the side of outer casing. The fireplace will be attached to the full cabinet mantel or corner mantel with the (2) two nailing flanges located on the top of the outer casing assembly.

Framing (Figure 11)
Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall covering and fireplace facing material. The fireplace framing should be constructed of 2 x 4 lumber or heavier. The framing headers may rest on the fireplace standoffs. Refer to Figure 11 for minimum framing dimensions.

CAUTION: MEASURE FIREPLACE DIMENSIONS AND VERIFY FRAMING METHODS, AND WALL COVERING DETAILS BEFORE FRAMING CONSTRUCTION BEGINS.

Framing dimension "A" includes a three inch clearance for standoffs on firebox. After installing firebox into framing, the finished wall surface must cover the three inch opening above the firebox.

Note: For finishing to top of fireplace, refer to Figure 12.



	ADVD32	ADVD36
"A"	35 3/4"	35 3/4"
"B"	34 3/8"	37 3/8"
"C"	16 3/8"	16 3/8"

Figure 11

Attention: Add 3-3/4" to “A” dimensions when using a flush mantel base.

Attention: If a base or mantel is not used and the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, it shall be installed on a metal or wood panel extending the full width and depth of the appliance. The vertical dimension in Figure 11 must be adjusted when a metal or wood panel is placed beneath the appliance.

Finishing (Figures 12 and 13)
Finish the walls with the material of your choice. Figure 3 on page 7 shows the minimum vertical and corresponding maximum horizontal dimensions of mantels or other combustible projections above the top front edge of the fireplace.
Only non-combustible materials may be used to cover the black fireplace front.

Warning: When finishing the fireplace never obstruct or modify the air inlet/outlet louvers in any manner. Provide adequate clearances around air openings into the combustion chamber.

Caution: If the joints between the finished wall and the fireplace surround (top and sides) are sealed, a 300°F minimum sealant material must be used. These joints are not required to be sealed. Only non-combustible material (using 300°F minimum adhesive if needed), can be applied as facing to the fireplace surround.

INSTALLATION (continued)

Flush Wall Installation

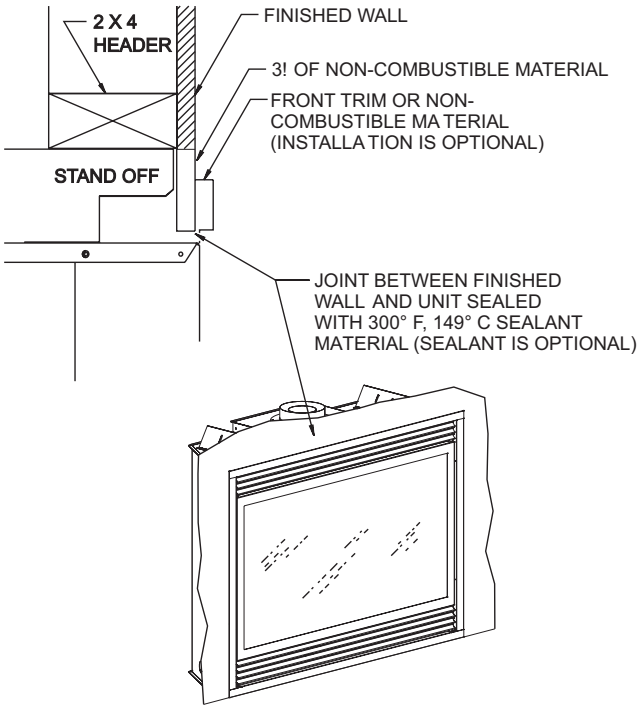


Figure 12

Combustible Surround Installation

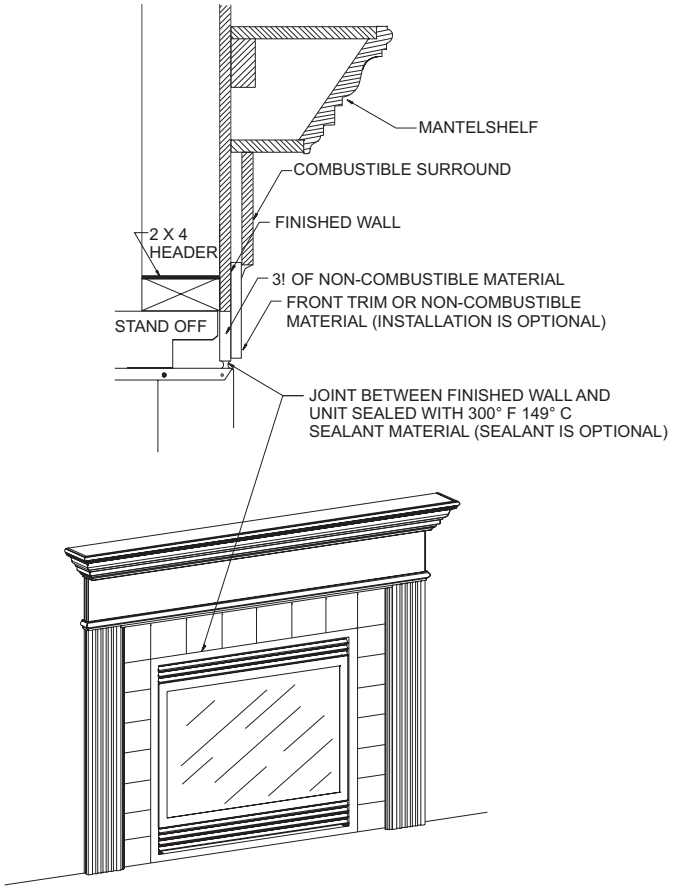


Figure 13

Attention: Cold climate installation recommendation: When installing this unit against a non-insulated exterior wall, it is recommended that the outer walls be insulated to conform to applicable insulation codes.

Vent Runs (Figures 14, 15, 16, 17 and 18)

In planning the installation for the fireplace, it is necessary to install certain components before the appliance is completely positioned and installed. These include the direct vent system, gas piping for the appliance and the electrical wiring.

The appliance can be mounted on any of the following surfaces:

1. A flat, hard combustible (burnable) surface.
2. A raised wooden platform.
3. Four (4) corner supports. (Example: Four (4) concrete masonry blocks.) These supports must be positioned so they contact all four (4) perimeter edges on the bottom of the unit.

VERTICAL, 90° ELBOW WITH HORIZONTAL TERMINATION

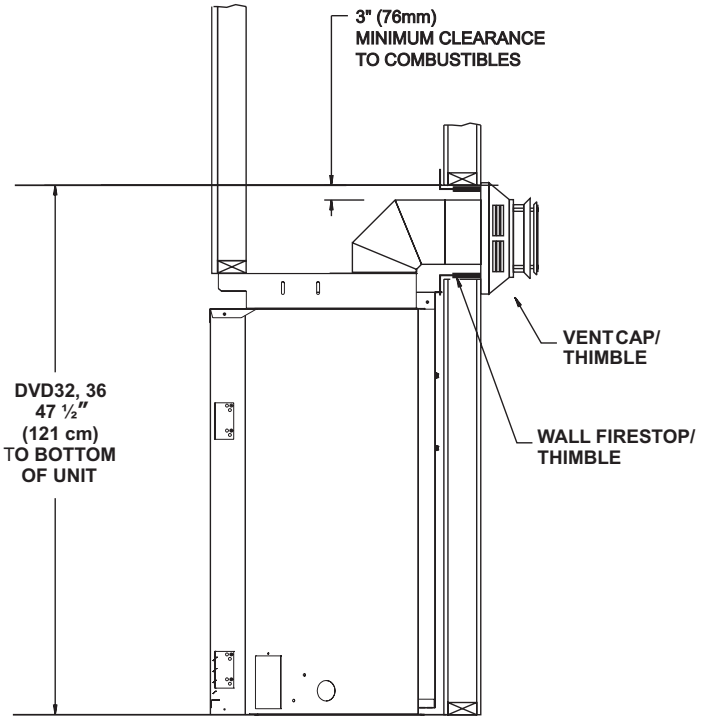
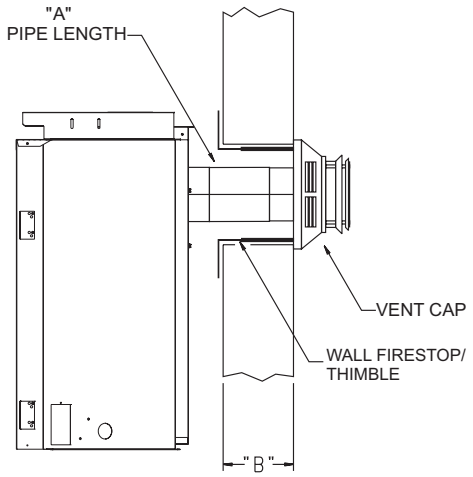


Figure 14

INSTALLATION (continued)

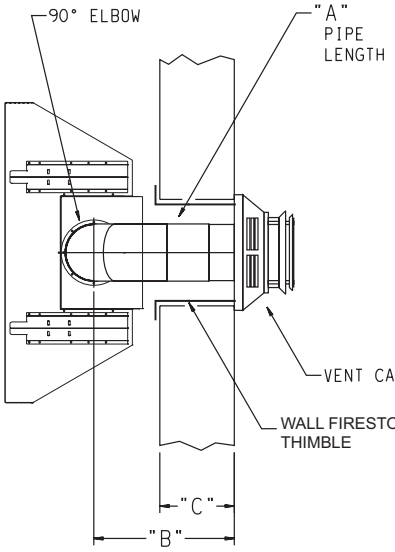
HORIZONTAL ONLY, STRAIGHT OUT THE BACK



"A"	"B"
6"	5 1/8" to 6 1/2"
9"	8 1/8" to 9 1/2"
12"	11 1/8" to 12 1/2"

Figure 15

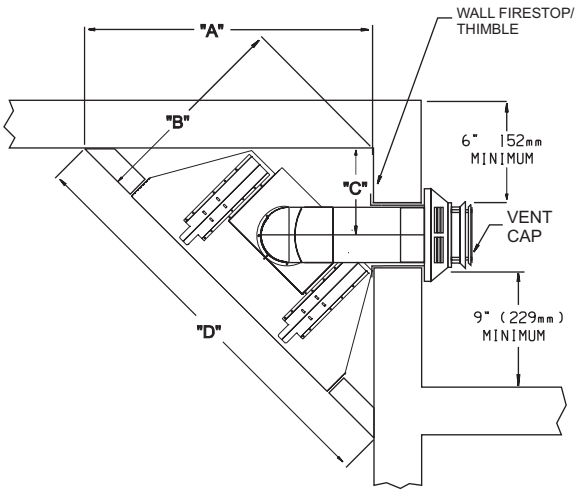
VERTICAL, 90° ELBOW TO HORIZONTAL OUT THE WALL



"A"	"B"	"C"
6"	11 1/4" to 12 3/4"	4 3/4" to 6 1/4"
9"	14 1/4" to 15 3/4"	7 3/4" to 9 1/4"
12"	17 1/4" to 18 3/4"	10 3/4" to 12 1/4"

Figure 16

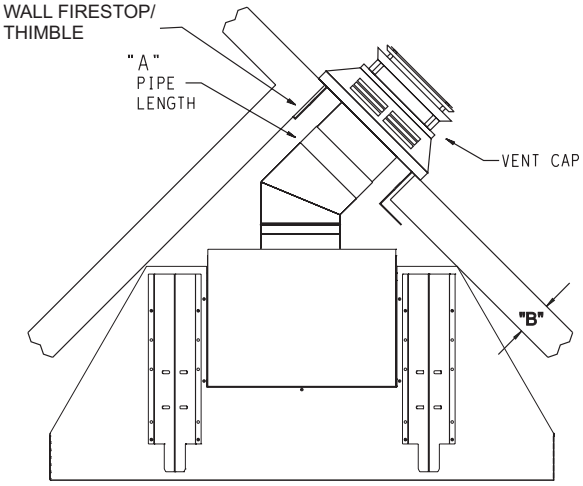
CORNER INSTALLATION VERTICAL, 90° ELBOW TO HORIZONTAL OUT THE WALL



Dim.	ADVD32	ADVD36
A	36 1/8" 918 mm	38 3/8" 975 mm
B	25 1/2" 648 mm	27 1/8" 689 mm
C	11 1/2" 292 mm	12 5/8" 321 mm
D	51 1/8" 1.299 m	54 1/4" 1.378 m

Figure 17

CORNER INSTALLATION HORIZONTAL, 45° ELBOW TO HORIZONTAL OUT THE WALL



	ADVD32	ADVD36
"A"	"B"	"B"
6"	4" to 5 1/2"	4" to 5"
9"	6" to 7 1/2"	6" to 7 1/2"
12"	9" to 10 1/2"	9" to 10 1/2"

Figure 18

VENTING FIREPLACE - TOP

To Use the Vent Graph (Figure 19)

1. Determine the height of the center of the horizontal vent pipe. Using this dimension on the Sidewall Vent Graph, locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 35 feet, the horizontal run to the outer wall flange must not exceed 6.5 feet.

EXAMPLE B:
If the vertical dimension from the floor of the unit is 6.5 feet, the horizontal run to the outer wall flange must not exceed 14.5 feet.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (457 mm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce 3' for every 90° elbow.

Example: According to the chart the maximum horizontal vent length is 20' and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17'.

The maximum number of 45 degree elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.

Note: On vertical venting the first elbow does not get counted.

Venting Graph (Dimensions in Feet)

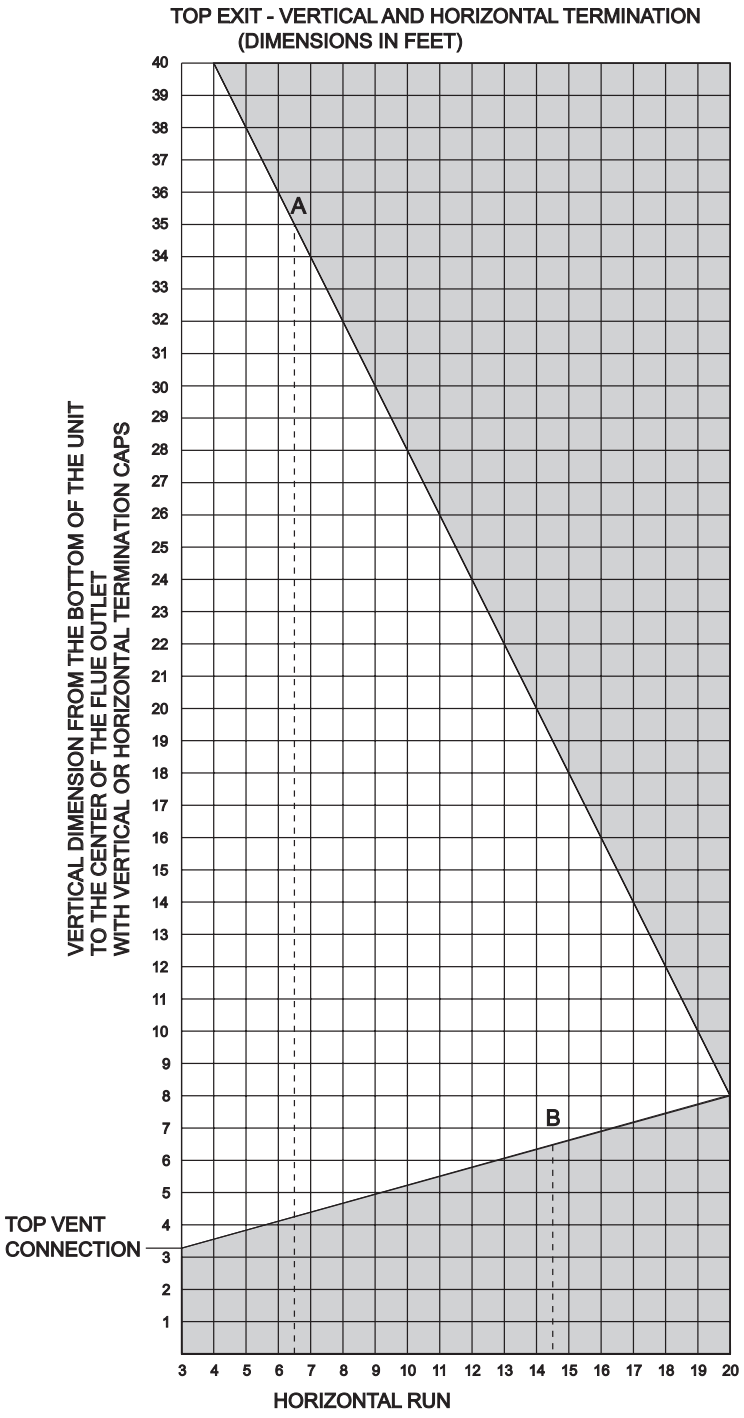
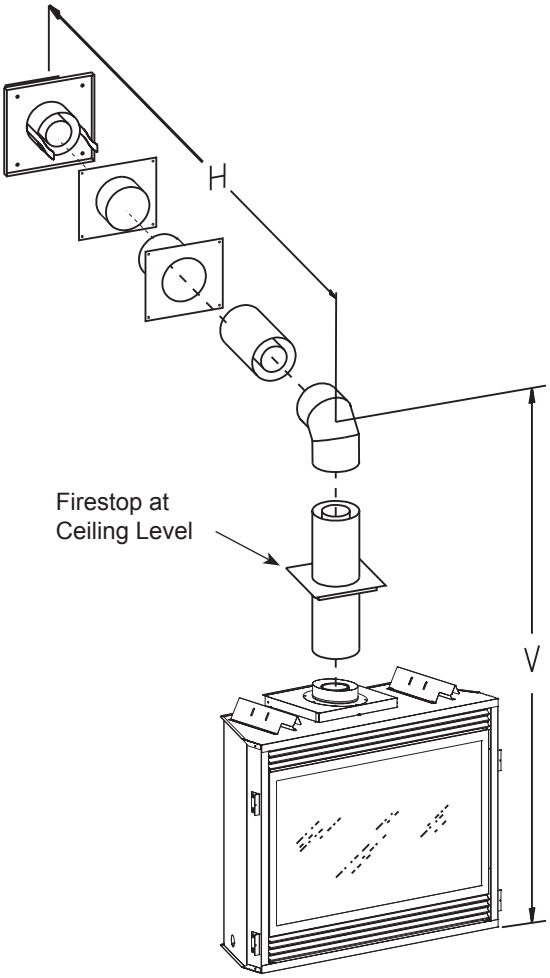


Figure 19

Acceptable vertical and horizontal vent run.
(40' maximum vertical and 20' maximum horizontal)

Unacceptable vertical and horizontal vent run.

VENTING FIREPLACE - TOP (continued)

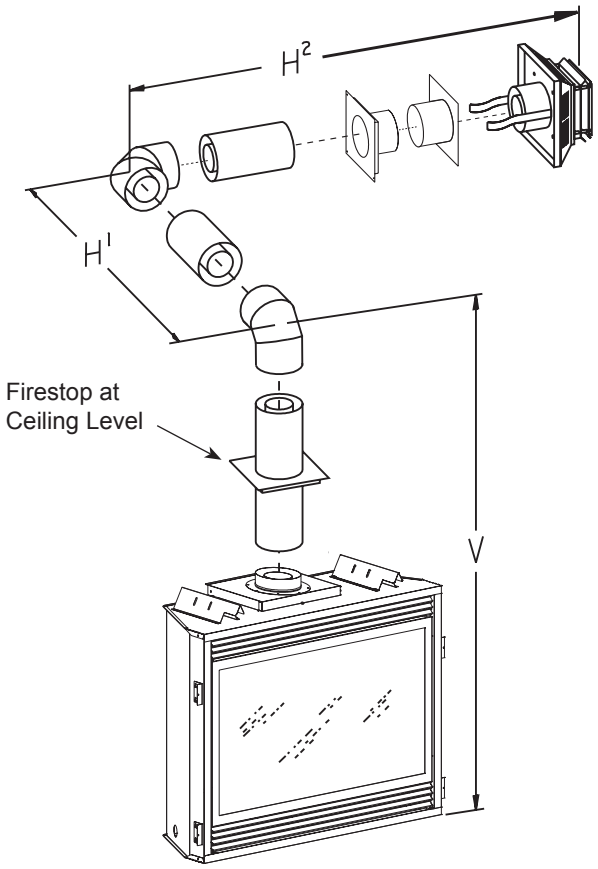


SEE GRAPH FOR PERMISSIBLE "H" AND "V" DIMENSIONS

Figure 21

Examples of possible venting systems using two (2) 90° elbows. V is listed as minimum vertical dimensions and H1 + H2 is listed as total of maximum horizontal dimensions. The maximum vertical and horizontal distances for two (2) 90° elbows as shown in Figure 22 is 20 feet.

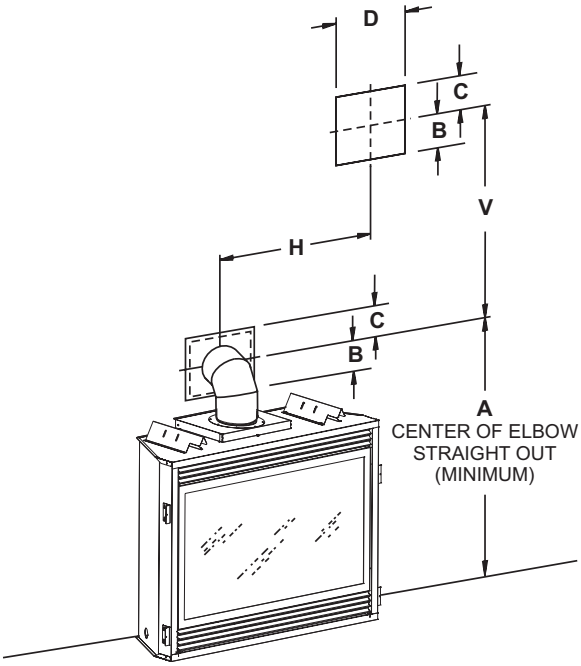
Attention: Refer to Figure 19 for additional venting requirements.



SEE GRAPH FOR PERMISSIBLE "H" AND "V" DIMENSIONS
NOTE: H1 AND H2 MUST BE ADDED TOGETHER TO USE CHART

Figure 22

VENTING FIREPLACE - TOP (continued)



MINIMUM HOLE LOCATION DIMENSIONS FOR THROUGH THE WALL HORIZONTAL INSTALLATIONS WITH 90 DEGREE ELBOW OFF TOP OF FIREPLACE

SEE FIGURE 19 ON PAGE 14 FOR PERMISSIBLE "H" AND "V" DIMENSIONS.

FIREPLACE SERIES	HARD ELBOW DIMENSIONS			
	"A"	"B"	"C"	"D"
ADVD32FP	41-1/2" (1054 mm)	4-1/2" (114 mm)	6-1/2" (165 mm)	9 1/8" (232 mm)
ADVD36FP	41-1/2" (1054 mm)	4-1/2" (114 mm)	6-1/2" (165 mm)	9 1/8" (232 mm)

FIREPLACE SERIES	FLEX PIPE 90 DEGREE BEND			
	"A"	"B"	"C"	"D"
ADVD32FP	43" (1092 mm)	4-1/2" (114 mm)	6-1/2" (165 mm)	9 1/8" (232 mm)
ADVD36FP	43" (1092 mm)	4-1/2" (114 mm)	6-1/2" (165 mm)	9 1/8" (232 mm)

Figure 23

Positioning the Fireplace

Determine the exact position of the appliance so the direct vent termination will be centered (if possible) between two (2) studs. This will avoid any extra framing. All vent kit pipes should be assembled on the unit after the unit is moved into the final position.

Cutting the Hole (Figures 23)

After the fireplace has been positioned in its permanent location, the hole through the exterior wall of the house can be cut. This hole must be 11" (280 mm) high x 10" (254 mm) wide with its center line determined by the amount of vertical rise and horizontal run of the termination. (See Figure 23) When locating the hole it must be noted that the bottom of the cap must be 12" (305 mm) above the ground level, and top of the cap must be no less than 18" (457 mm) below a combustible projection, and no closer than 9" (229 mm) to any wall running parallel to vent termination. (See Figure 24)

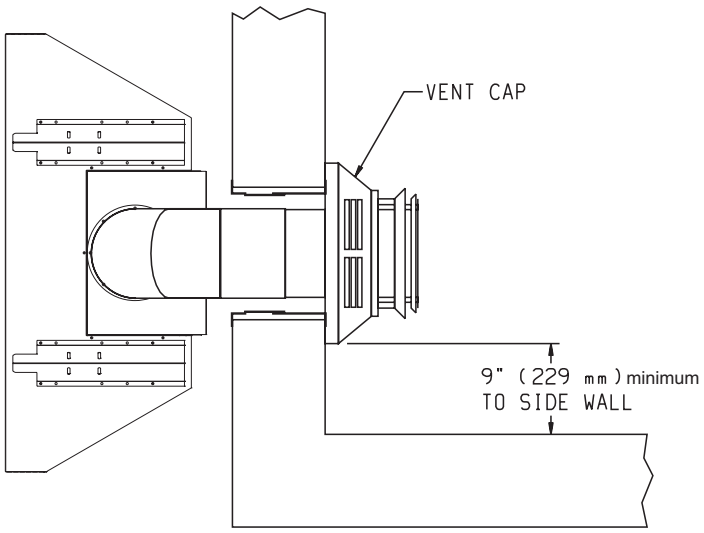
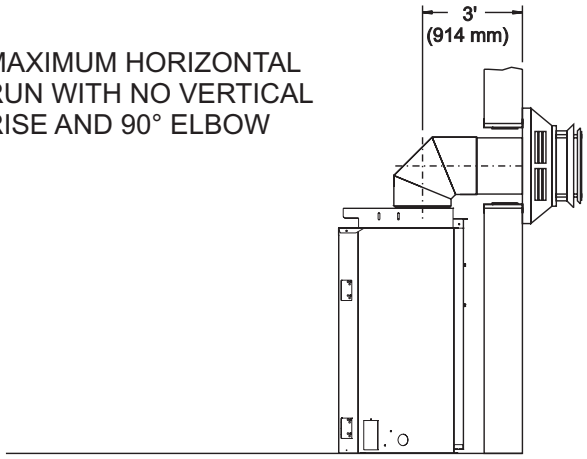


Figure 24

MAXIMUM HORIZONTAL RUN WITH NO VERTICAL RISE AND 90° ELBOW



MAXIMUM HORIZONTAL RUN WITH MINIMUM VERTICAL RISE AND 90° ELBOW

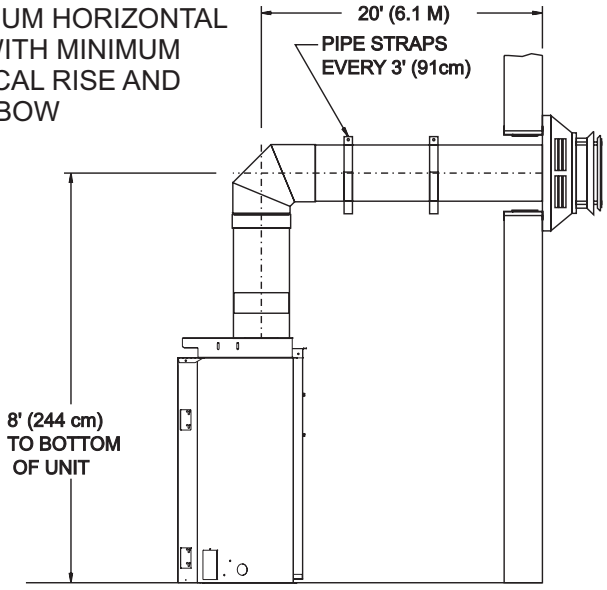
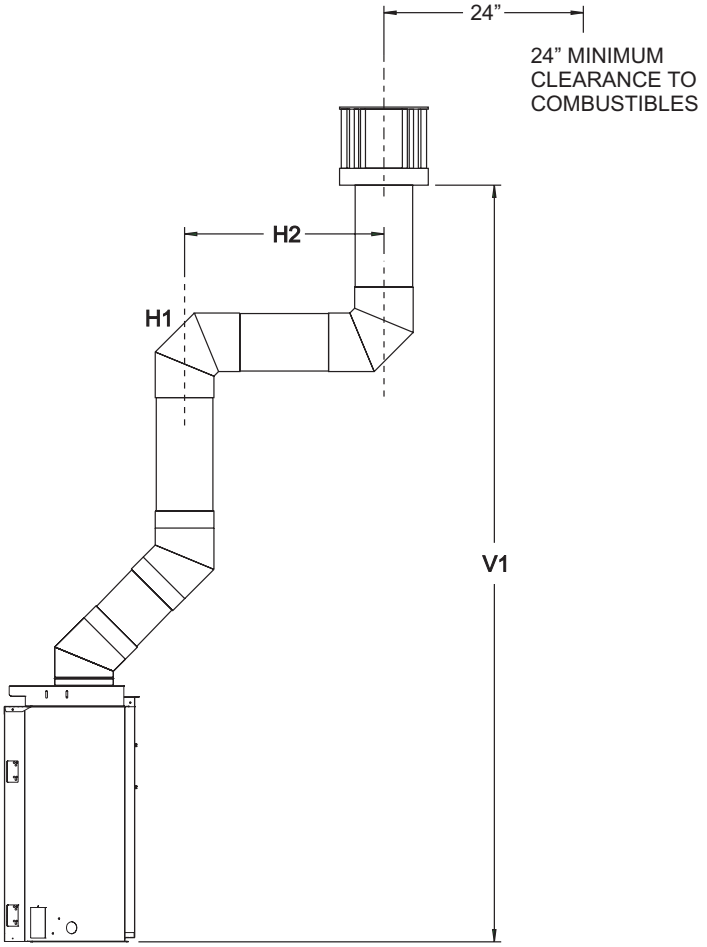


Figure 25

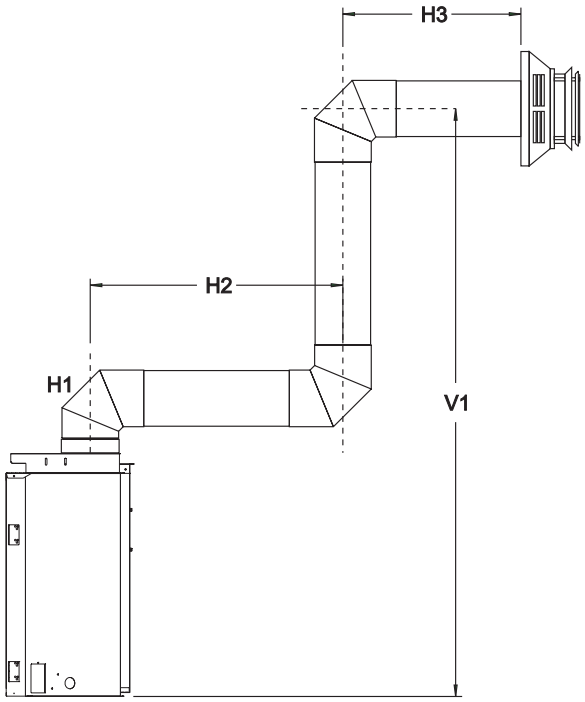
EXAMPLES - TOP VENT RUN



Example
H2 = 2ft
2 - (90° + 90°) = 6ft

H = 8ft V = 15ft

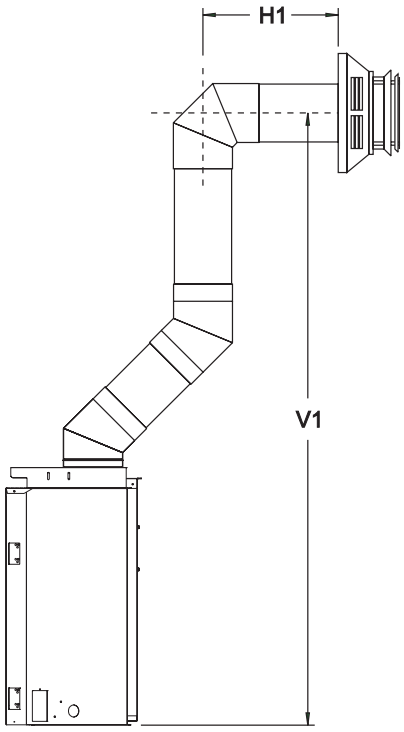
Figure 26



Example
H2 - 3ft, H3 - 1ft = 4ft
(90° + 90° + 90°) = 6ft
V1 = 21ft

H = 10ft V = 21ft

Figure 27



Example
H1 = 2ft
V1 = 20ft

H = 2ft V = 20ft

Figure 28

VENTING FIREPLACE - REAR

To Use the Vent Graph (Figure 29)

1. Determine the height of the center of the horizontal vent pipe. Using this dimension on the Sidewall Vent Graph, locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:
If the vertical dimension from the floor of the unit is 12 feet, 4 inches, the horizontal run to the outer wall flange must not exceed 12 feet, 3 inches.

EXAMPLE B:
If the vertical dimension from the floor of the unit is 6 feet, 9 inches the horizontal run to the outer wall flange must not exceed 6 feet, 6 inches.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (457 mm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce 3' for every 90° elbow.

Example: According to the chart the maximum horizontal vent length is 20' and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17'.

The maximum number of 45 degree elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.

Note: When rear venting unit, adjust air shutter from 1/16" open up to between 1/8" and 3/16" for NAT gas.

Adjust air shutter from 1/4" open to between 5/16" and 3/8" for LP gas.

Venting Graph (Dimensions in Feet)

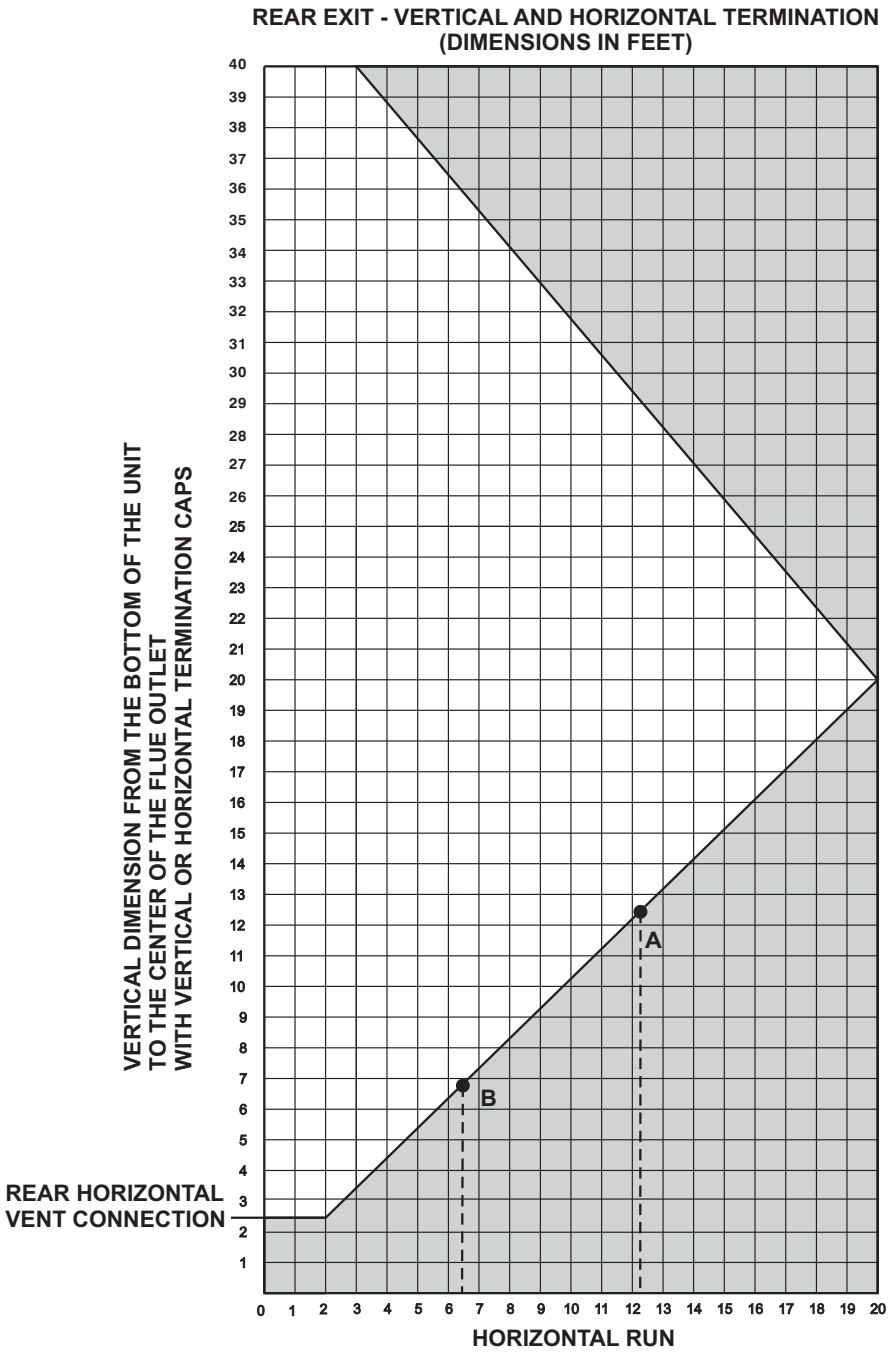


Figure 29

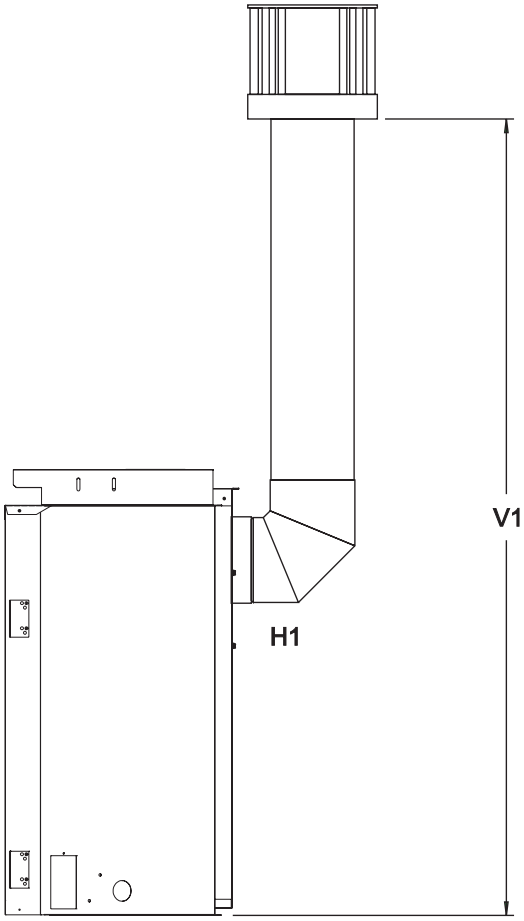
Acceptable vertical and horizontal vent run.

Unacceptable vertical and horizontal vent run.

Note: When rear venting unit, adjust air shutter from 1/16" open to between 1/8" and 3/16" for NAT gas.

Adjust air shutter from 1/4" open to between 5/16" and 3/8" for LP gas.

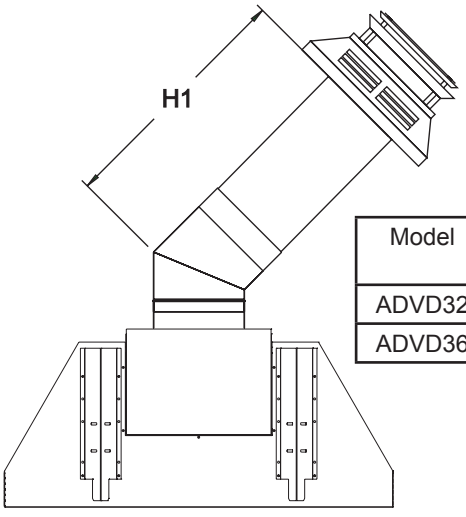
EXAMPLES - REAR VENT RUN



Example
H1 (90°) 3ft
V1 = 22ft

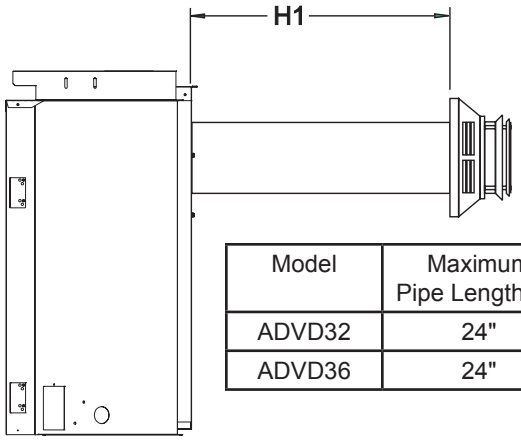
H = 3ft V = 22ft

Figure 30



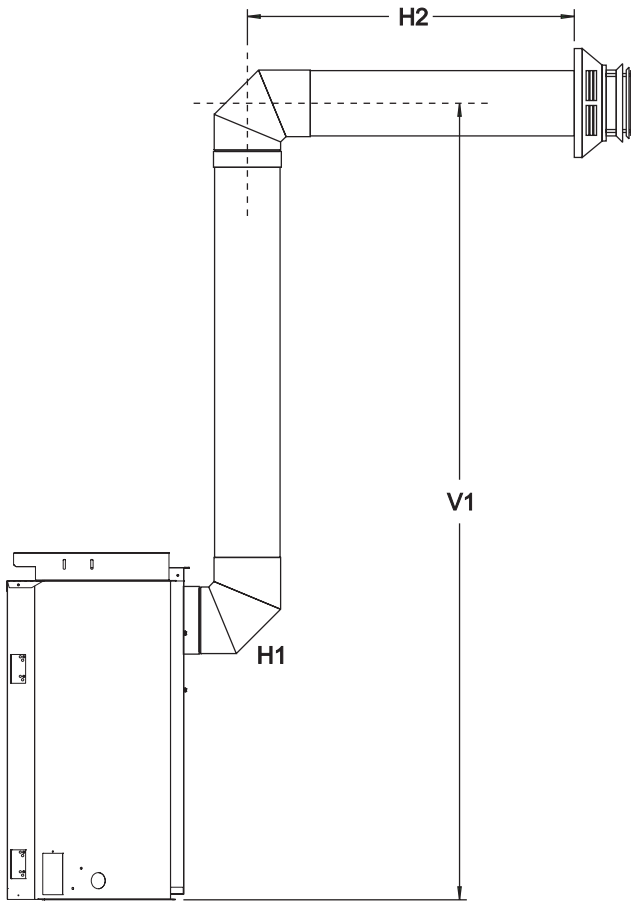
Model	Maximum Pipe Length H1
ADVD32	24"
ADVD36	24"

Figure 31



Model	Maximum Pipe Length H1
ADVD32	24"
ADVD36	24"

Figure 32



Example
H2 = 4ft
(90° + 90°) = 6ft
V1 = 12ft

H = 10ft V = 12ft

Figure 33

TERMINATION CLEARANCES

Termination clearance for buildings with combustible and noncombustible exteriors.

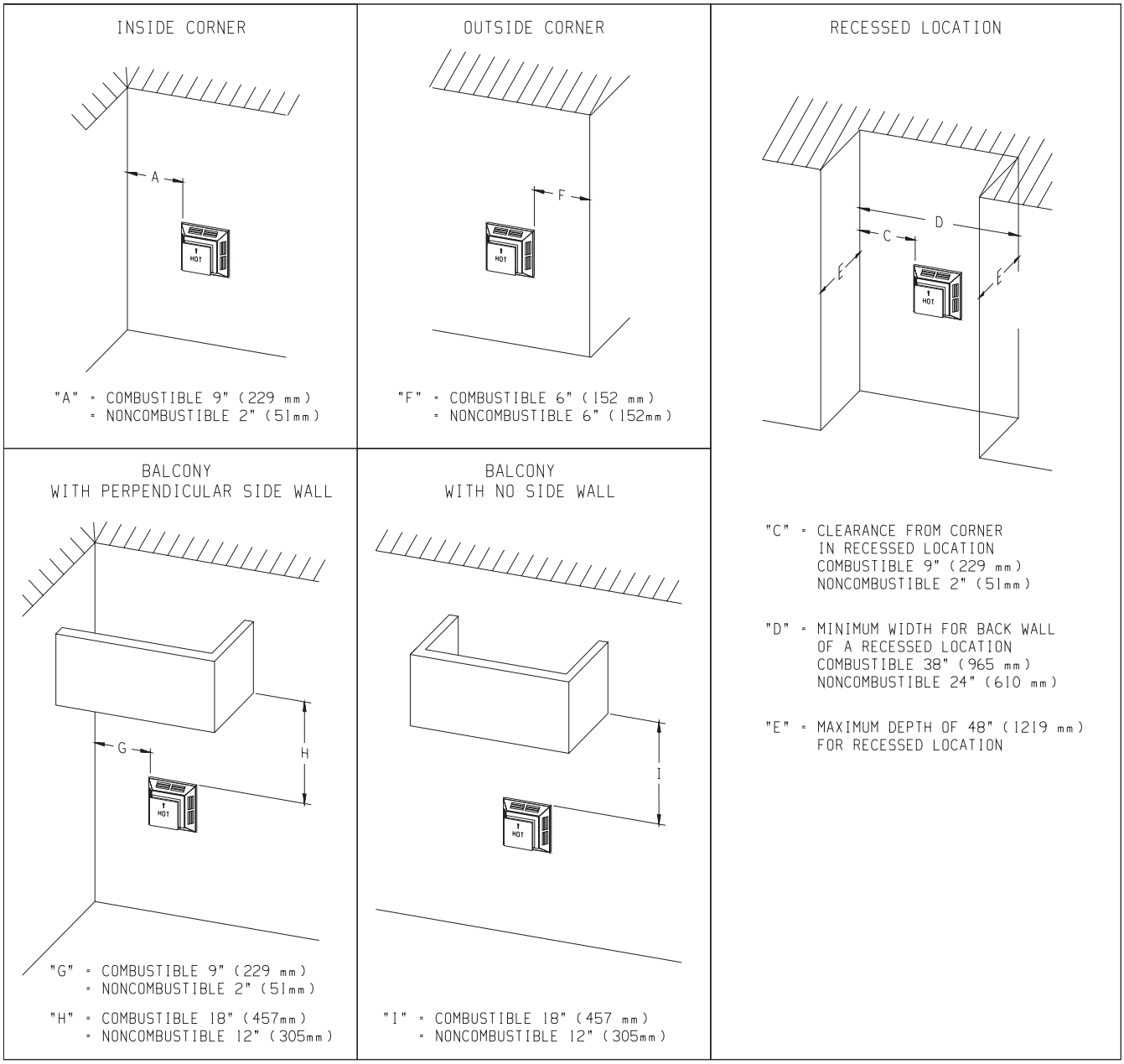


Figure 34

Vertical Sidewall Installations

Important! Minimum clearance between vent pipes and combustible materials is three (3") (76 mm) on top, and (1") (25 mm) on bottom and sides.

Important! When vent termination exits through foundation less than 20" below siding outcrop, the vent pipe must extend outward so that the horizontal vent terminal is located flush to, or beyond the outcrop siding.

Information on Various Venting Routes and Components

Important: It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

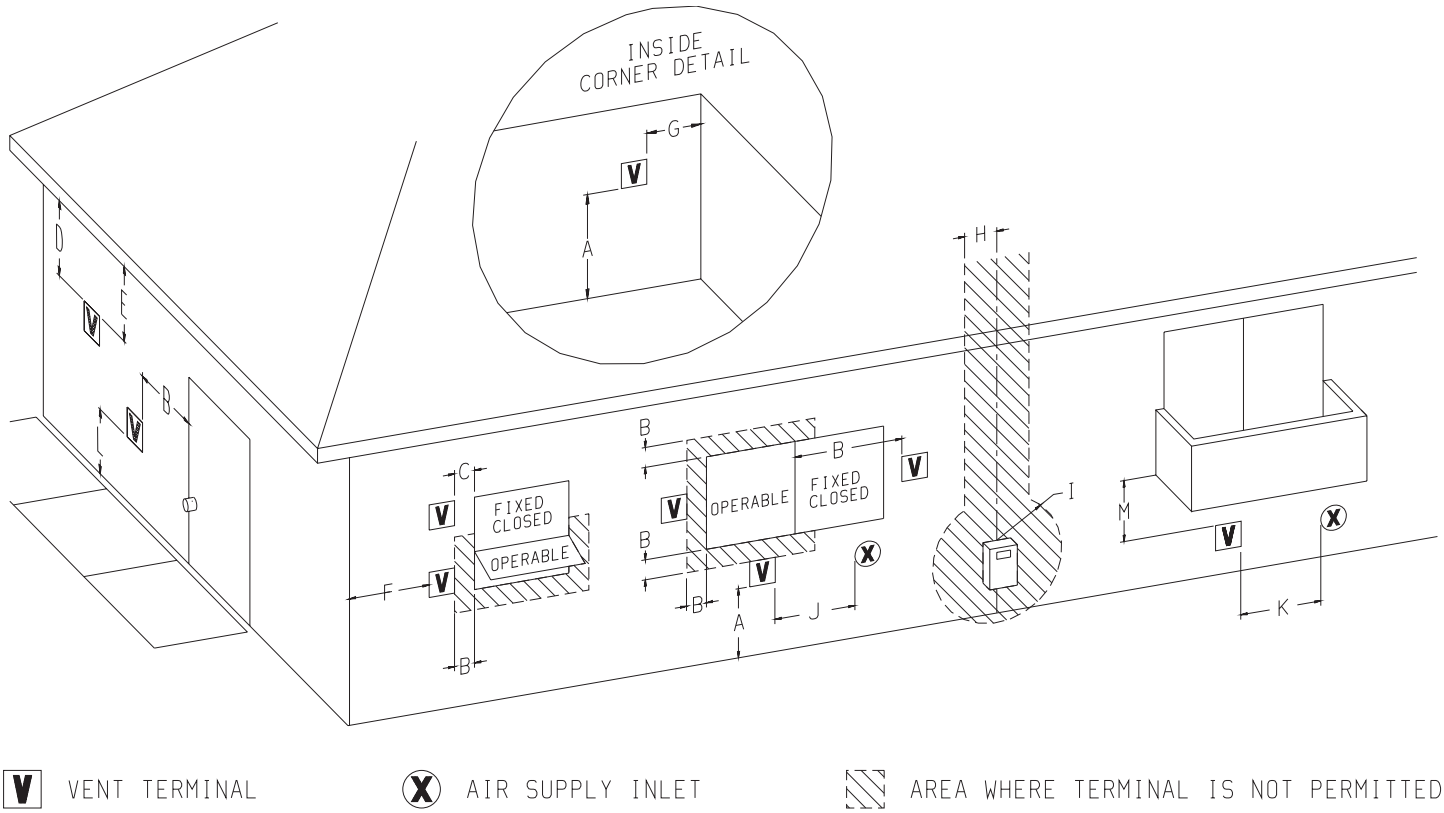
The graph showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths allowable.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace to the face of the outer wall.

The maximum horizontal vent run is 20 feet (6.10 m) when the vertical vent rise is 8 feet (2.44 m) (See Figure 19).

Venting terminals shall not be recessed into wall or siding.

VENT CLEARANCES



VENT TERMINAL AIR SUPPLY INLET AREA WHERE TERMINAL IS NOT PERMITTED

Figure 35

A = *Clearance above grade, veranda, porch, deck or balcony [*12 inches (305 mm) minimum]

B = clearance to window or door that may be opened [*12 inches (305 mm) minimum for appliances < 100,000 Btuh (30kW)

C = clearance to permanently closed window [minimum 12 inches (305 mm) recommended to prevent condensation on window]

D = vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 24 inches (609 mm) from the center of the terminal [18 Inches (457 mm) minimum

E = clearance to unventilated soffit [12 inches 305 mm) minimum]

F = clearance to outside corner [See Page 20]

G = clearance to inside corner [See Page 20]

H = *not to be installed above a meter/regulator assembly within 3 feet (914 mm) horizontally from the center-line of the regulator

I = clearance to service regulator vent outlet [*6 feet (1.8 m) minimum]

J = clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [*12 inches (305 mm) minimum for appliances ≤ 100,000 Btuh (30 kW)

36 inches (914 mm) minimum for appliances > 100,000 Btuh (30kW)]

K = clearance to a mechanical air supply inlet [* 6 feet (1.8 m) minimum]

L = †clearance above paved sidewalk or a paved driveway located on public property [*7 feet (2.1 m) minimum]

M = clearance under veranda, porch, deck, or balcony [*12 inches (305 mm) minimum ¥]

† a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings*

¥ only permitted if veranda, porch, deck, or balcony, is fully open on a minimum of 2 sides beneath the floor*

* as specified in CGA B149 Installations Codes or ANSI Z223.1. Note: Local Codes or Regulations may require different clearances.

VENT SYSTEM IDENTIFICATION

Installing Vent Components (Figure 36)

Begin the vent system installation by installing the first component, 90° elbow to the starting collars or straight pipe on the top of the appliance, then the straight pipe length and then horizontal or vertical termination kit.

NOTE: All outer connection joints must be sealed with aluminum tape, screws or silicone sealant rated above 300°F/149°C. The inner flue joints do not require any sealant.

All vent system components lock into place by sliding the concentric pipe section with four (4) equally spaced interior beads onto the appliance collar or previously installed component end with four (4) equally spaced indented sections. When the internal beads of each starting outer pipe line up, rotate pipe section clockwise 90° (approximately 3 inches). The vent pipe is now locked together.

Continue adding components per the pre-planned vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.

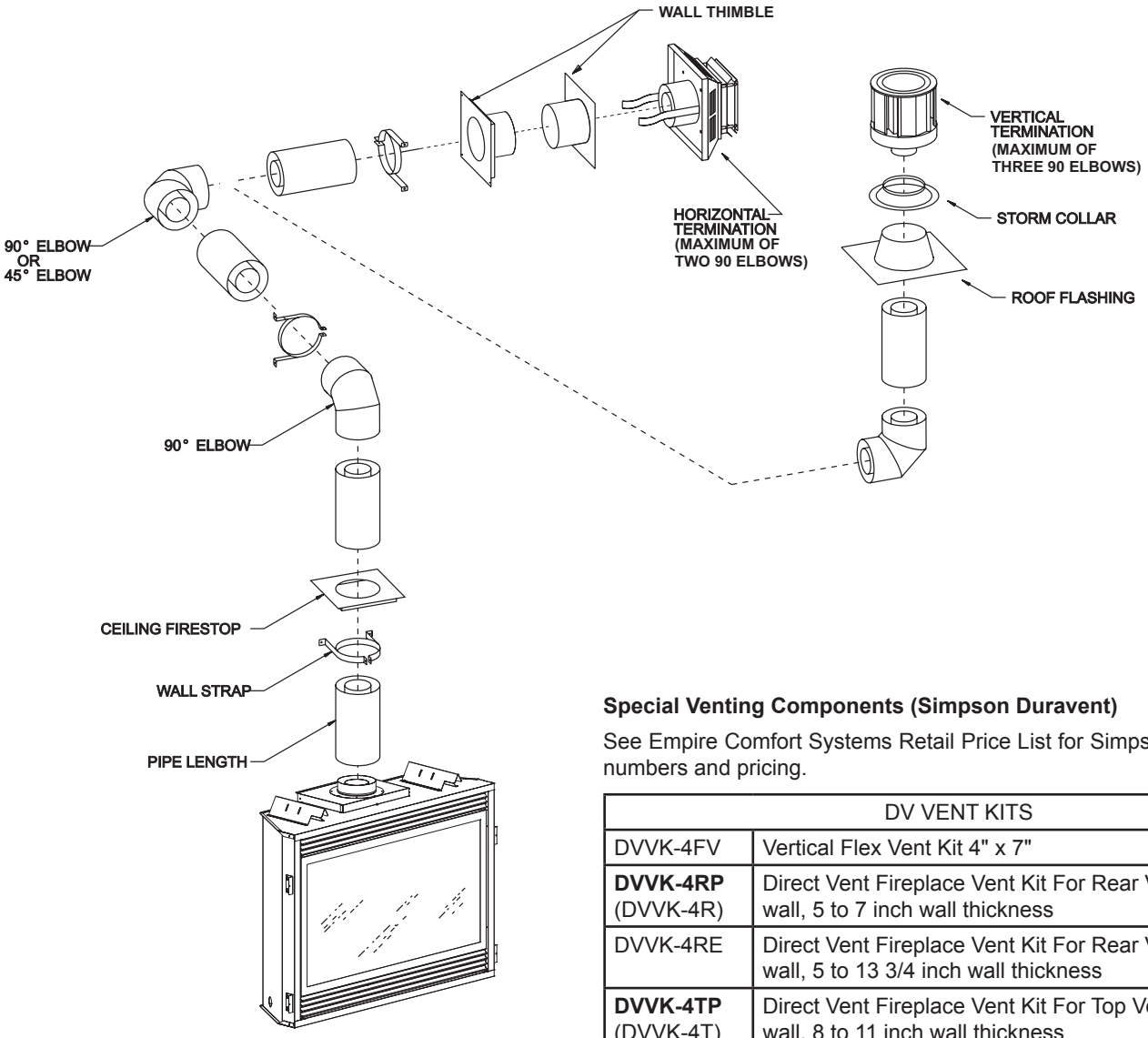


Figure 36

Special Venting Components (Simpson Duravent)

See Empire Comfort Systems Retail Price List for Simpson Duravent part numbers and pricing.

DV VENT KITS	
DVVK-4FV	Vertical Flex Vent Kit 4" x 7"
DVVK-4RP (DVVK-4R)	Direct Vent Fireplace Vent Kit For Rear Vent, Thru-the wall, 5 to 7 inch wall thickness
DVVK-4RE	Direct Vent Fireplace Vent Kit For Rear Vent, Thru-the-wall, 5 to 13 3/4 inch wall thickness
DVVK-4TP (DVVK-4T)	Direct Vent Fireplace Vent Kit For Top Vent Thru-the-wall, 8 to 11 inch wall thickness
DVVK-4TSP (DVVK-4TS)	Direct Vent Fireplace Vent Kit For Top Vent Thru-the-wall, 4.5 to 6 inch wall thickness
DVVK-4VP (DVVK-4V)	Direct Vent Fireplace Vent Kit - Vertical, Flashing Kit w/ Vertical Cap
VIB6A	Vertical Inlet Baffle Kit For 6 5/8" dia.
VIB7A	Vertical Inlet Baffle Kit For 7" dia.

Installing Support Brackets (Figure 37)

A horizontal pipe support MUST BE used for each 3 feet of horizontal run. The pipe supports should be placed around the pipe and nailed in place to framing members. There MUST BE a 3 inch clearance to combustibles above 6 5/8 inch diameter pipe and elbows and 1 inch clearance on both sides and bottom of 6 5/8 inch pipe to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent systems must be supported every 4 feet above the appliance flue outlet by wall brackets attached to the 6 5/8 inch vent pipe and secured with nails or screws to structural framing members.

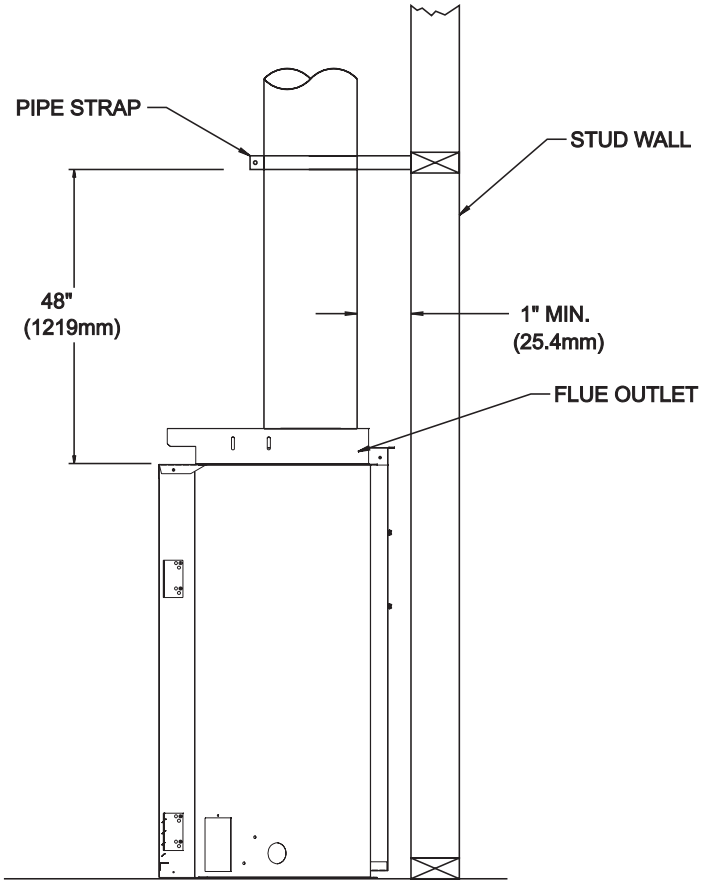


Figure 37

Installing Firestops

Firestops are required for safety whenever the vent system passes through an interior wall, an exterior wall, or a ceiling. These firestops act as a firebreak heat shield and as a means to insure that minimum clearances are maintained to the vent system.

Horizontal Firestops (Figure 38)

Horizontal runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops on both sides of the wall through which the vent passes.

Position the firestops on both sides of the framed hole, previously cut. Refer to Figure 23 on page 16 for sizing information. Secure firestop with nails or screws. The heat shields of the firestops MUST BE placed towards the top of the hole. Continue the vent run through the firestops.

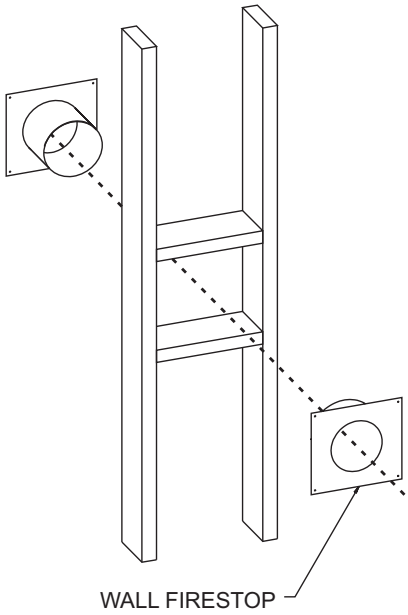


Figure 38

Vertical Firestops (Figures 39, 40 and 41

Vertical runs of this system which pass through celings require the use of ONE (1) ceiling firestop at the hole in each ceiling through which the vent passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the appliance and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

Cut a 10 inch x 10 inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 39. If the area above the ceiling is NOT an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole. See Figure 40. If the area above the ceiling is an attic, position and secure the firestop on top of the previously framed hole. See Figure 41.

NOTE: Remove insulation from the framed area in the attic before installing the firestop and/or vent pipes.

FRAMING AND FINISHING (continued)

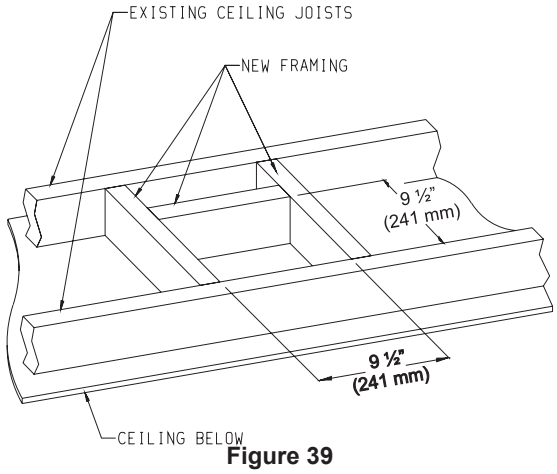


Figure 39

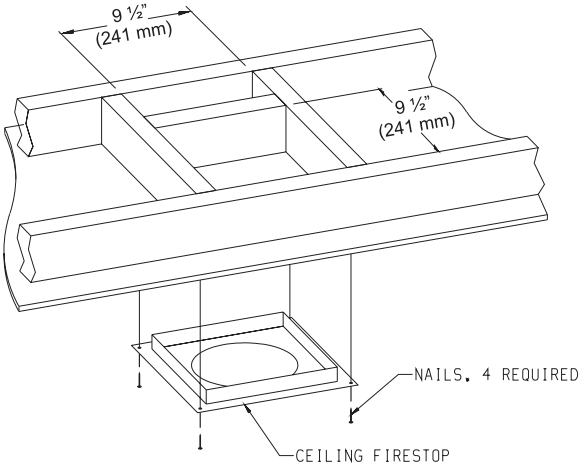


Figure 40

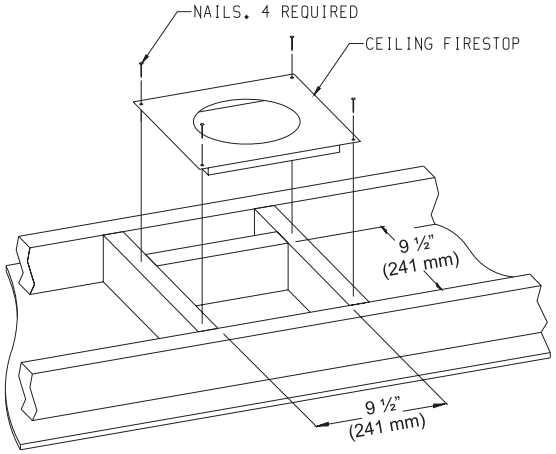


Figure 41

See Horizontal Termination Page 24 and Vertical Termination Page 25-26.

HORIZONTAL TERMINATION

NOTE: Termination cap should pass through the wall firestop from the exterior of the building. Adjust the termination cap to its final exterior position on the building.

WARNING: Termination cap must be positioned so that arrow is pointing up.

Attach the termination cap with the four wood screws provided. Before attachment of the termination, run a bead of silicone sealant rated above 250°F on its outside edge too, so as to make a seal to the exterior wall.

NOTE: Wood screws can and should be replaced with appropriate fasteners for use on stucco, brick, concrete or other types of siding.

CAUTION: If exterior walls are finished with vinyl siding (or materials that could become discolored or warp), it is necessary to install a vinyl siding standoff.

The vinyl siding standoff will be installed between the vent termination and the exterior wall. (See Figure 42) This horizontal vent termination bolts onto the flat portion of the vinyl siding standoff, so an air space will exist between the wall and the termination cap.

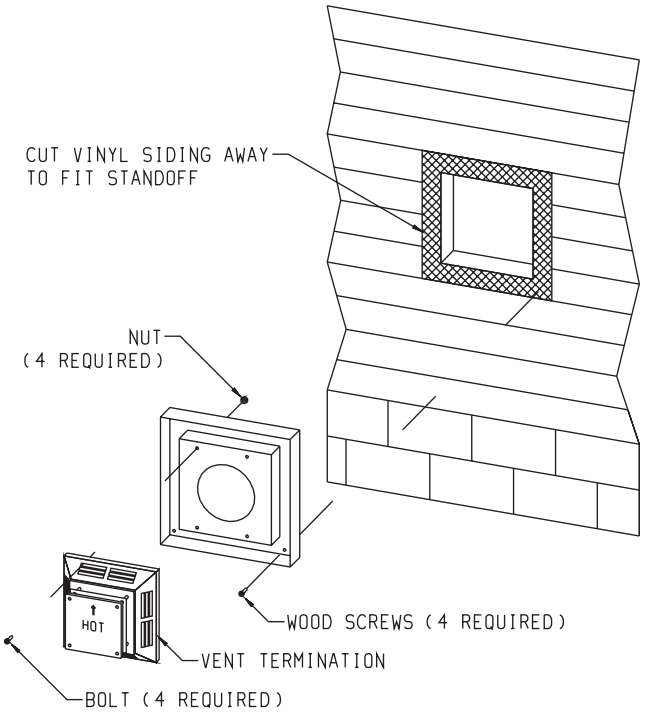


Figure 42

VERTICAL TERMINATION

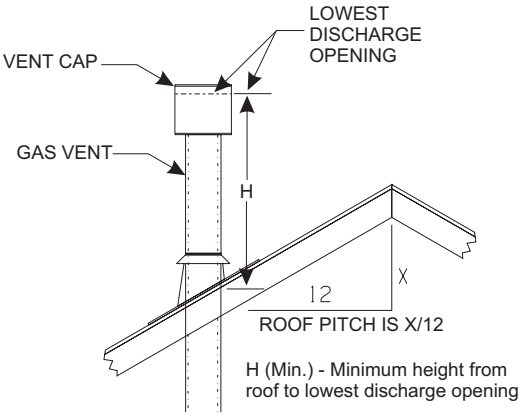
Locate and mark the center point of the venting pipe. Using a nail on the underside of the roof and drive this nail through this center point. Make the outline of the roof hole around this center point.

NOTE: Size of the roof hole dimensions depend on the pitch of the roof. There must be a 1 inch clearance (25 mm) to the vertical pipe sections. This clearance is to all combustible material.

Cover the opening of the vent pipe and cut and frame the roof hole. Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to frame must withstand high winds. The storm collar is placed over this joint to make a water-tight seal. Non-hardening sealant should be used to completely seal this flashing installation.

Determining Minimum Vent Height Above the Roof.

WARNING: Major U.S. building codes specify minimum chimney and/or vent height above the roof top. These minimum heights are necessary in the interest of safety. These specifications are summarized in Figure 43.



ROOF PITCH	H (Min.)
Flat to 6/12	12" (305 mm)
6/12 to 7/12	15" (381 mm)
Over 7/12 to 8/12	18" (457 mm)
Over 8/12 to 16/12	24" (610 mm)
Over 16/12 to 21/12	36" (914 mm)

Figure 43

Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height may solve this problem.

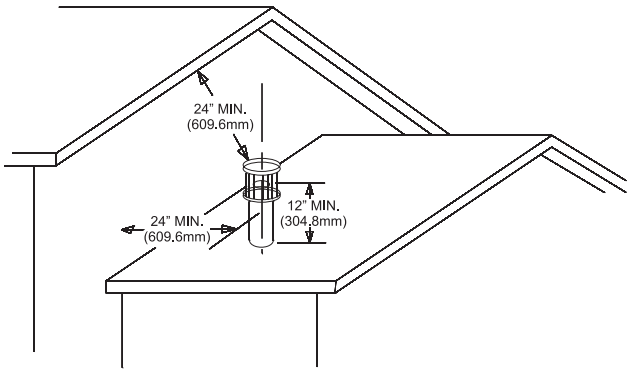


Figure 44

When terminating the vent cap near an exterior wall or overhang, maintain minimum clearances as shown in Figure 44.

General Maintenance

Conduct an inspection of the venting system semi-annually. Recommended areas to inspect are as follows:

1. Check areas of the venting system which are exposed to the elements for corrosion. These will appear as rust spots or streaks and, in extreme cases, holes. These components should immediately be replaced.
2. Remove the cap and shine a flashlight down the vent. Remove any bird nests or other foreign material.
3. Check for evidence of excessive condensate, such as water droplets forming in the inner liner and subsequently dripping out at joints. Condensate can cause corrosion of caps, pipe and fittings. It may be caused by having excessive lateral runs, too many elbows and exterior portions of the system being exposed to cold weather.
4. Inspect joints to verify that no pipe sections or fittings have been disturbed and, consequently, loosened. Also, check mechanical supports, such as wall straps or plumbers' tape for rigidity.

Venting terminal shall not be recessed into a wall or siding.

A removable panel or other means must be provided in the enclosure for visual inspection of the flue connection.

NOTE: This also pertains to vertical vent systems installed on the outside of the building.

Slide the vertical vent cap over the ends of the vent pipe and secure. (See Figure 45)

Installing the Vent System in a Chase

A chase is a vertical box-like structure built to enclose the gas appliance and/or it's vent system. Vertical vent runs on the outside of a building may be, but are not required to be installed inside a chase.

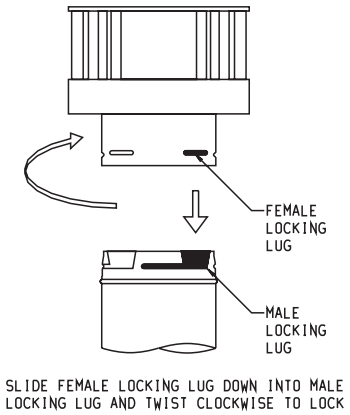


Figure 45

CAUTION: Treatment of firestop spacers and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, your local building codes must be checked to determine the requirements for these steps.

NOTE: When installing this vent system in a chase, it is always good building practice to insulate the chase as you would the outside walls of your home. This is especially important for cold climate installations. Upon completion of building your chase framing, install the vent system by following the instructions in this manual. Remember to build the chase large enough so that minimum clearance of combustible materials (including insulation) to the vent system are maintained.

VERTICAL TERMINATION (continued)

Installation of Vertical Inlet Baffle

The vertical inlet baffle is to be used only in a completely vertical vent installation. The vertical inlet baffle can be used when the vertical vent rise is between 10 feet and 40 feet. To maintain the yellow flame in the main burner, purchase Vertical Inlet baffle, VIB6A for use with 6 5/8" diameter vent systems, or the VIB7A for use with 7" diameter vent systems. These are available from your American Hearth distributor or dealer.

In a vertical vent rise the rear (yellow) flame on the main burner can be reduced due to the drawing action from the flue exhaust pipe and the air inlet pipe. A decrease in the height or the appearance of the yellow flame may occur when the vertical vent rise is between 10 feet and 40 feet. To enhance the yellow flame on the main burner, the vertical inlet baffle can be attached to the direct vent high wind vertical top.

Please refer to the instructions included with the Air Inlet Baffle Kit for proper installation.

Reassembly and Resealing Vent Pipe System

Attach vent pipe to inlet and outlet vent adaptor on fireplace in either the vertical or horizontal position, replace horizontal and vertical pipe lengths, elbows and horizontal or vertical termination kit.

All vent system components lock into place by sliding the concentric pipe section with four (4) equally spaced interior beads onto the appliance collar or previously installed component end with four (4) equally spaced indented sections. When the internal beads of each starting outer pipe line up, rotate pipe section clockwise 90° (approximately 3 inches). The vent pipe is now locked together.

Continue replacing components per the vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.

Reassembly and Resealing Gas Accumulation Relief System Glass Frame Assembly and Combustion Chamber

Whenever the glass frame assembly is pivoted open by a delayed ignition in the main burner, the glass frame assembly gaskets and combustion chamber must be examined by a qualified service person for damage. All damaged gaskets on the glass frame assembly and combustion chamber must be replaced by a qualified service person. If damage occurs to the combustion chamber, it must be replaced by a qualified service person. Contact your American Hearth Dealer for replacement parts.

Vertical Through the Roof Applications (Figure 46)

Your Gas Fireplace has been approved for:

a) Vertical installations up to 40 feet in height.
b) Two sets of 45 degree elbow offsets within these vertical installations. From 0 to a maximum of 8 ft. a vent pipe can be used between elbows.
c) Wall straps must be used to support offset pipe every 4'.

This application will require that you first determine the roof pitch and use the appropriate venting components.

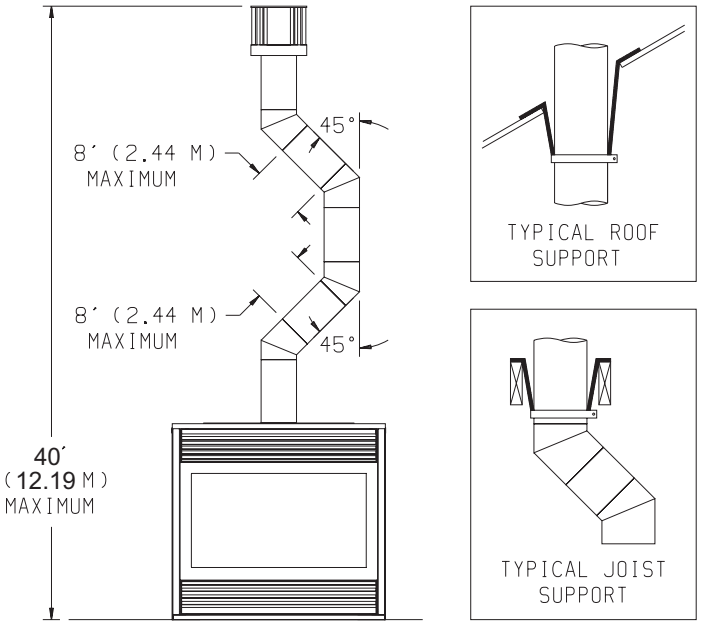


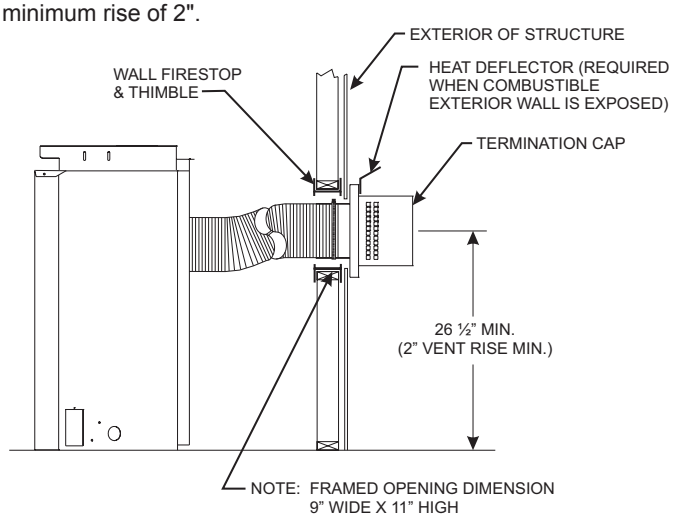
Figure 46

DVVK-4F FLEX VENT INSTRUCTIONS

The DVVK-4F FLEX VENT KIT includes the following components:

- (1) Horizontal Termination Cap
- (1) 4-foot section of Flex vent with spacers (4" flue/7" outer pipe)
- (1) 4" dia. Flue adapter collar
- (1) 7" dia. Outer Vent adapter collar
- (1) Wall Firestop/Thimble Assembly
- Hardware pack that includes band clamps and screws

Flex venting can be installed either vertically or horizontally off of the DVD Series fireplaces. When installing a horizontal vent run from top connections, maintain at least ½" rise for every 12" of vent run. When venting horizontal off the rear vent connections, allow a minimum rise of 2".



CAUTION: Always stretch and secure venting with wire or metal strapping to ensure that the horizontal runs do not sag.

If space permits, it is generally easier to attach venting in the top vent configuration.

Because of sharp edges, always use gloves when handling the flex vent components.

Vent connections should overlap a minimum of 1" for proper sealing.

Always follow the general venting requirements for vent terminal location, vent lengths, and clearance to combustible materials.

INSTALLATION

1. Unpack vent components and check that all items are included.
2. Check to see that the vent spacer springs are located around the flue vent at 8" and 12" intervals along its length. See Figure A. If not, stretch the spacer springs to about 15" long and wrap them around the flue, then interlock the ends of each spring about 2". See Figure B. Maintain equal distance between spring spacers.
3. Remove the 6-⅝" diameter vent collar from the fireplace. Replace this collar with the 7" diameter flex Vent adapter collar provided with the vent kit.
4. Slide the Flex Vent flue pipe into the Outer Flex Vent pipe.
5. Install the Wall Firestop/Thimble assembly as required through the wall. Refer to the venting charts on page 14 and 18 to determine the proper height and size of the vent opening. The minimum opening should be 9" wide by 11" high. The minimum combustible clearance from the horizontal vent is 1" from sides and bottom, and 3" above the vent pipe. See Figure D.
6. In most cases, after determining the length of the vent that is needed, it may be easier to install the flue and outer vent pipes to the Termination Cap first, then from the outside, feed the venting through the wall to the fireplace.
7. If the venting is to long, trim off any excess vent before attaching the vent end connectors.
8. Attach the Termination Cap to the outside of the house.
9. Prior to making the vent connections, apply high temperature sealant (1000 degree F min.) to the vent connections before securing with the band clamps provided. Note: the flue pipe end without the adapter is to be installed to the Termination Cap.
10. Apply sealant to the outside of the flue pipe adapter and connect to the flex flue pipe. Then insert the adapter into the fireplace flue. Secure flue adapter to the fireplace flue with a minimum of two screws provided. See Figure C.
11. Attach the Outer Vent pipe to the 7" diameter collar on the fireplace with a large band clamp provided. Sealant may also be used on the outer vent connections.
12. Check all vent connections for tightness. Make sure horizontal venting has the proper rise and combustible clearances required. Refer to the Venting Chart on Pages 14 and 18 for Horizontal Termination of Flex Vent Termination Cap.

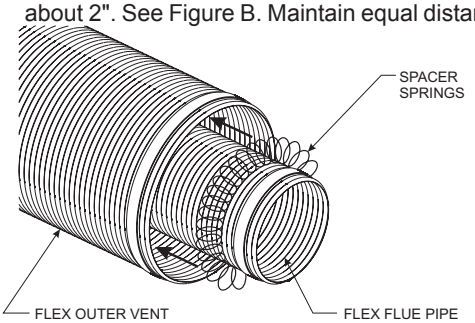


Figure A

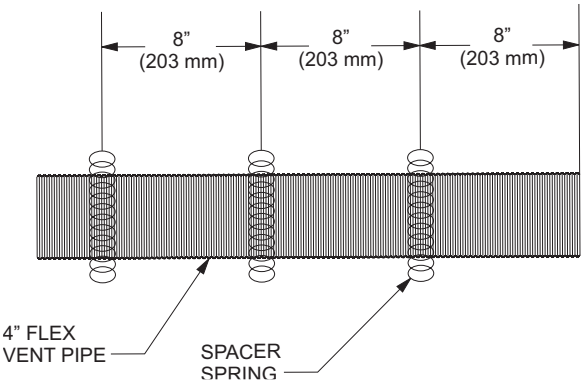


Figure B

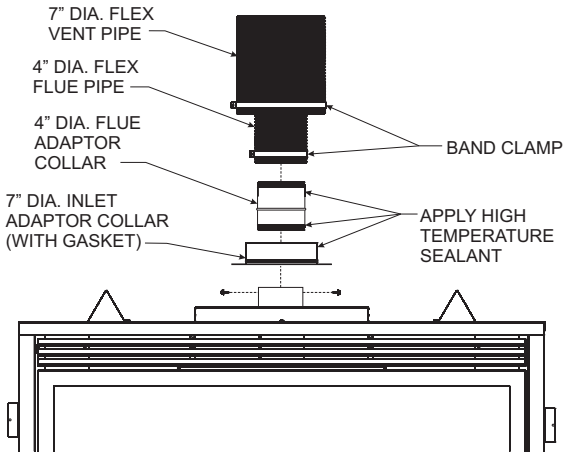


Figure C

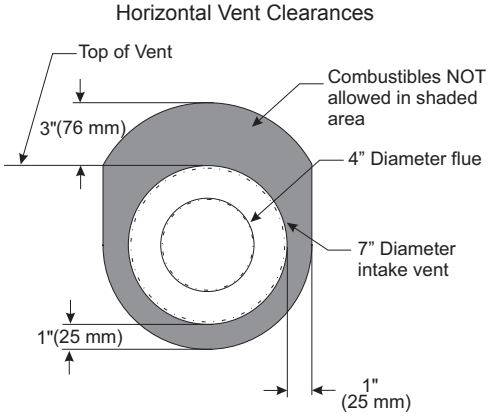


Figure D

LOG PLACEMENT (5 LOG SET)

Before you begin: if you are installing logs into the ADVD32 OR ADVD36 model then this fireplace is supplied with a set of five ceramic fiber logs. Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling logs, wash your hands gently with soap and water to remove any traces of fibers.

The positioning of the logs is critical to the safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Please refer to Figure 46 and Figure 47 and corresponding WARNING when completing following log placement instructions.

1. Remove top louver, grasp louver, lift and pull forward.
2. Lower bottom louver, lift and hinge forward.
3. Release two glass frame spring clamps at bottom of firebox.
4. Remove glass frame assembly.
5. Place front logs (#1 and #2) between front grate flange and main burner. Align notches on front logs with locator tabs in base.
6. Place middle log (#3) between front and rear loop of burner. Note: Do not place log on top of pilot assembly.
7. Place rear log (#4) on rear log shelf. Bottom flange of log must be placed between the log shelf and burner tube.
8. Place branch (#5) onto (#1) log and flat area on (#3) log. The bottom of the branch is to be placed behind the grate tang that is second from the left.
9. Place decorative rock in front of grates and sides of main burner pan.

ATTENTION: Do not place decorative rock on logs or burner. The decorative rock should only be placed on the fireplace floor.

EMBER MATERIAL PLACEMENT ON BURNER

10. After all logs are positioned properly, apply Rockwool ember material to the front burner port area. To apply, carefully separate the ember material into small amounts no larger than "dime size" pieces. Fluffed up pieces one layer thick on top of the burner generally works best, and will provide the best ember glow. Do not place ember material more than one layer thick. No more than (1) small packet of ember material (part no. 15999) evenly placed on the burner, is recommended on ADVD32 and ADVD36 models. Using additional ember material will decrease the amount of ember glow effect. Extra ember material should be saved for future ember applications as necessary. See Figure 48.
11. Replace glass frame onto firebox.
12. Secure the two glass frame spring clamps at bottom of firebox.
13. Align the tabs on top louver brackets with slots in front posts to secure top louver.
14. Close bottom louver. Lift slightly to engage the end tabs into the slots in fireplace sides to close louver panel

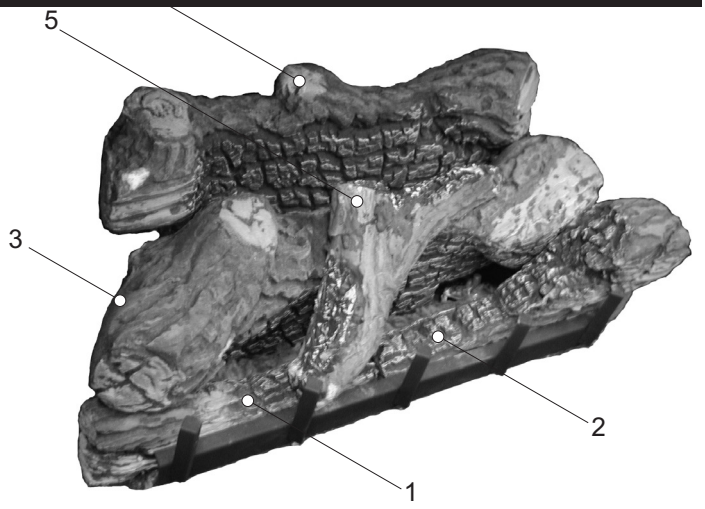


Figure 47

WARNING: Failure to position the parts in accordance with this diagram or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Attention: Do not use Figure 47 or Figure 48 to order logs. Refer to parts list on page 35 and parts view on page 36 to order logs and/or ember material for your appropriate fireplace model.

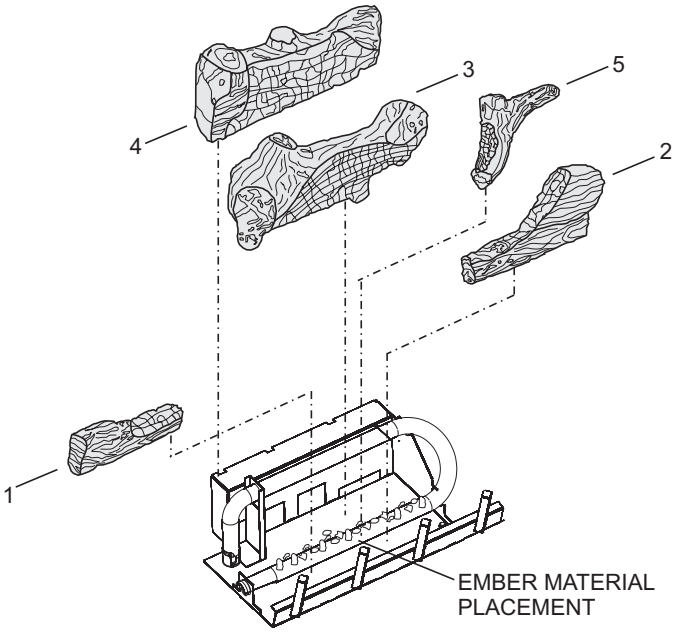


Figure 48

OPERATING INSTRUCTIONS

750 Millivolt System

The standing pilot (750 millivolt system) is a continuous burning pilot. The pilot remains ON even when the main burner is OFF.

When you ignite the pilot, the thermopile produces millivolts (electrical current) which energizes the magnet in the gas valve. After 30 seconds to 1 minute time period you can release the gas control knob and the pilot will stay ON. Allow your pilot flame to operate an additional one (1) to two (2) minutes before you turn the gas control knob from the PILOT position to the ON position. This time period allows the millivolts (electrical current) to build-up to a sufficient level allowing the gas control to operate properly.

1. Follow the SAFETY and LIGHTING INSTRUCTIONS for standing pilot controls found in this manual and on labels found in control compartment behind the door assembly.

CAUTION: During the initial purging and subsequent lightings, never allow the gas valve control knob to remain depressed in the “pilot” position without pushing the piezo ignitor button at least once every second.

2. During the operating season, leave the control valve knob in the “ON” position. This will allow the pilot flame to remain lit. Turn the burner flame on or off with the fireplace REMOTE/OFF/ON switch, wall switch or remote controls.

NOTE: The gas control valve allows you to increase or decrease the height of the main burner flame. The control valve has a pressure regulator with a knob as shown in Figure 49. Rotate the knob clockwise to “HI” to increase the flame height and counterclockwise to “LO” to decrease the flame height.

3. When the operating season is over, turn the REMOTE/OFF/ON switch to “OFF” and the control valve to “OFF”. The system, including the pilot light, will be shut down.

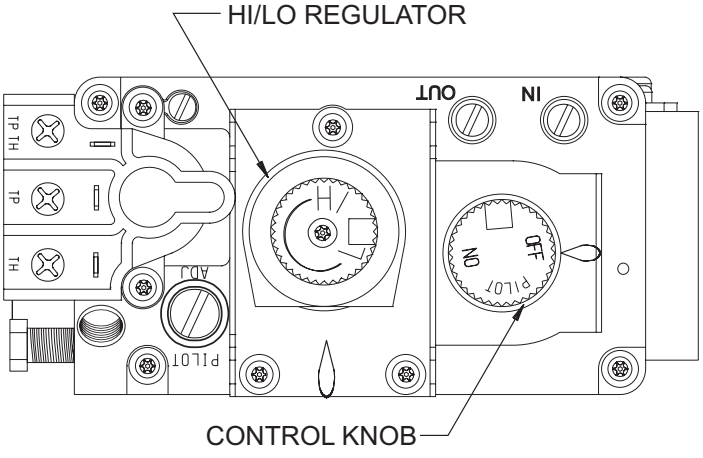


Figure 49

The OWNER should carefully read and follow these operating instructions at all times. Lower the door assembly to view the gas controls for the fireplace.

Initial Lighting

Upon completing the gas line or turning the gas valve on after it has been in the “OFF” position, a small amount of air will be in the lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and operate satisfactorily.

Subsequent lightings of the appliance will not require such purging if the gas valve is not turned to “OFF.”

Pilot Flame (Figure 50)

The thermopile/thermocouple (standing pilot) tips should be covered with flame.

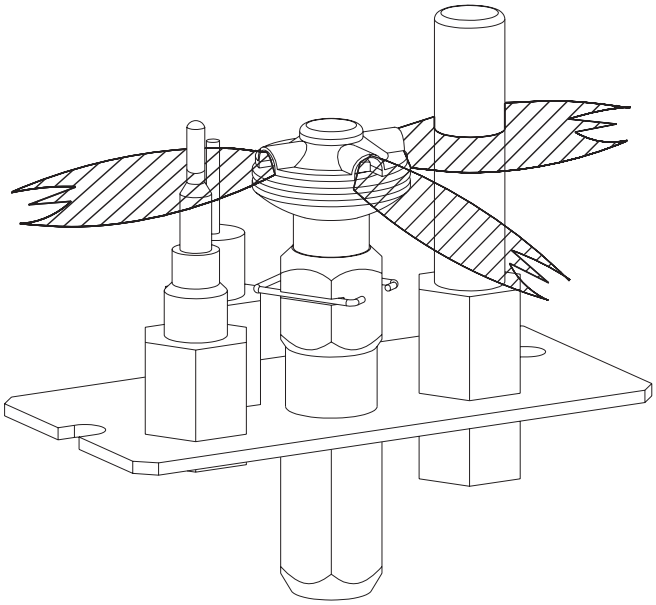


Figure 50

OPERATING INSTRUCTIONS (continued)

STANDING PILOT OPERATING INSTRUCTIONS
REMOTE/OFF/ON Switch
The fireplace is equipped with a REMOTE/OFF/ON switch. A wire harness is attached to the REMOTE/OFF/ON switch. The red, black and green (wires) female push-ons attach to the REMOTE/OFF/ON switch. At the opposite end of the wire harness, the black and green (wires) female push-ons attach to the gas valve. An additional green wire and the red wire, which are stripped and bare, will attach to one of the accessories that can be purchased for use with your fireplace.

Operation of REMOTE/OFF/ON Switch with no Accessories
To ignite main burner, turn the control knob on the gas valve from the PILOT position to the ON position. Turn the REMOTE/OFF/ON switch from the OFF position to the ON position. The additional green wire and red wire, which are stripped and bare are not used.

Wall Switch, FWS-1
Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the wall switch. Turn the REMOTE/OFF/ON switch to the REMOTE position. Pivot the rocker switch on the FWS-1 to the ON position.

Wall Thermostats (optional)

TRW - Wireless for Millivolt models
TMV - Reed switch for Millivolt models

Battery Operated Remote Controls, FRBC, FBRTC, and TRW
Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the remote receiver that is a component in the remote kit. Turn the REMOTE/OFF/ON switch to the REMOTE position. Follow instructions included with the remote to complete installation.
Note: If batteries fail in the remote, and immediate heat is desired, turn the REMOTE/OFF/ON switch from the REMOTE position to the ON position.

Installation of Remote Receiver
Place remote receiver on the floor of fireplace behind the louver as far forward as possible.

Attention: The Velcro loop and hook are not necessary in this installation but can be used to secure remote receiver.

Refer to remote control installation and operating instructions for more details on remote control.

Millivolt Control
The valve regulator controls the burner pressure which should be checked at the pressure test point. Turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point (Use test point “A” closest to control knob). After taking pressure reading, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque. Check for gas leaks.

Millivolt thermopile is self generating. Gas valve does not require 24 volts or 110 volts.

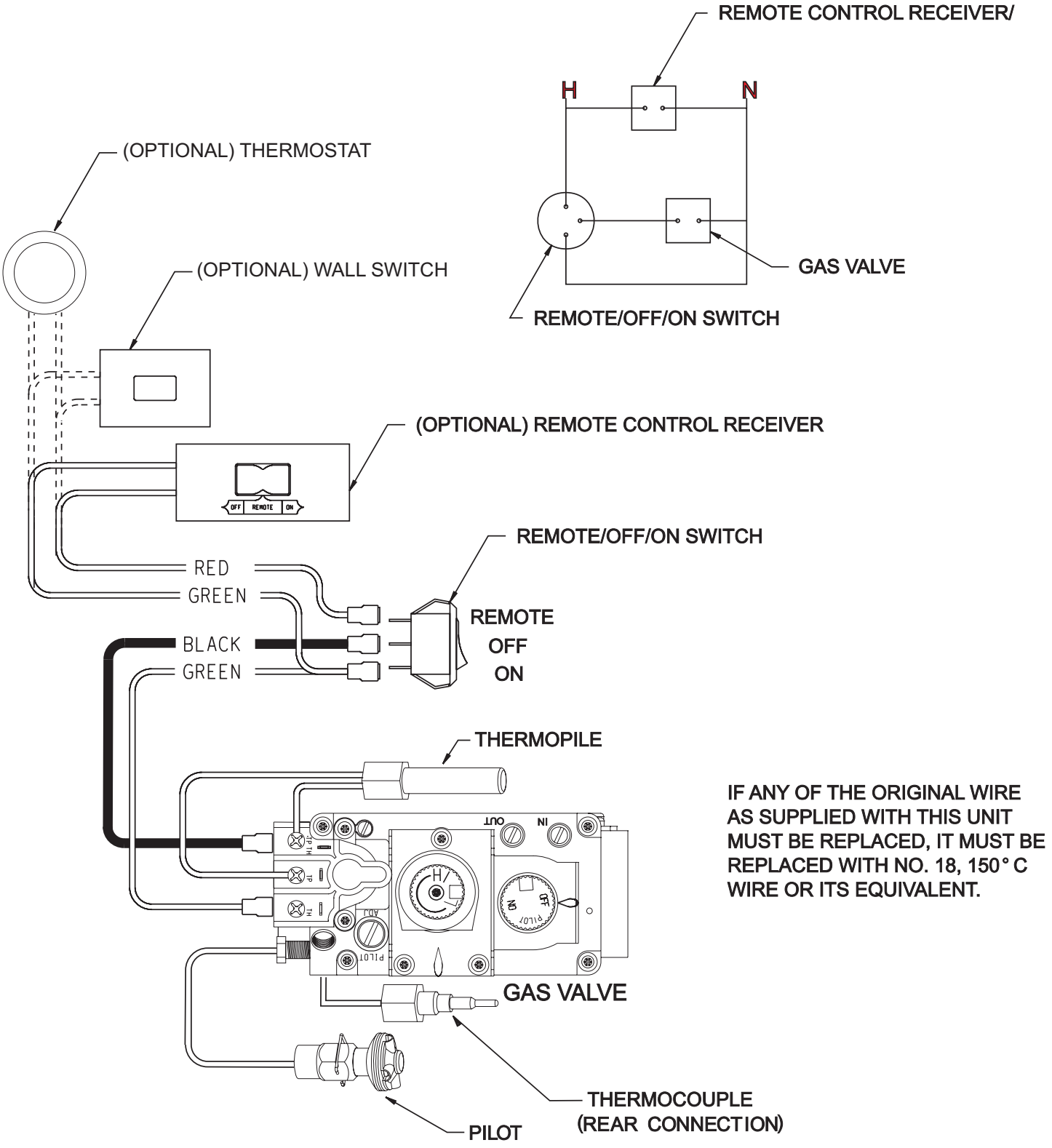
Check System Operation
Millivolt system and all individual components may be checked with a millivolt meter 0-1000 MV range.

It is important to use wire of a gauge proper for the length of the wire:

Recommended Wire Gauges

Maximum Length	Wire Gauge
1' to 10'	18
10' to 25'	16
25' to 35'	14

STANDING PILOT WIRING DIAGRAM



IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH NO. 18, 150° C WIRE OR ITS EQUIVALENT.

Figure 51

STANDING PILOT LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss off life.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. Before lighting smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

What To Do If You Smell Gas

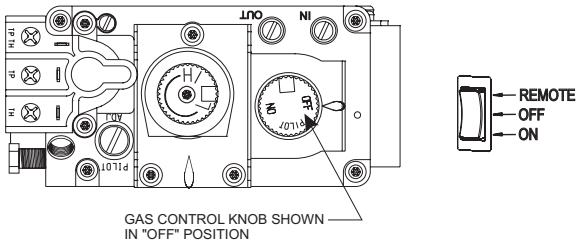
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

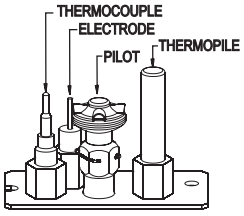
LIGHTING INSTRUCTIONS

1. Stop! Read the safety information above.
2. Set REMOTE/OFF/ON switch to OFF.
3. Turn off all electric power to the appliance (if applicable).
4. Lower bottom louver assembly.
5. Push in gas control knob slightly and turn clockwise to "OFF."



Note: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

6. Wait ten (10) minutes to clear out any gas. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.



7. Find pilot - Follow metal tube from gas control. The pilot is behind the burner on the right side.
8. Turn gas control knob counterclockwise to "PILOT."
9. Push in control knob all the way and hold in. Repeatedly push the piezo ignitor button until the pilot is lit. Continue to hold the control knob in the for about one (1) minute after the pilot is lit. Release knob, and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.
   - If the control knob does not pop up when released, STOP and IMMEDIATELY call a qualified service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn gas control knob counterclockwise to "ON."
11. Close bottom louver assembly.
12. Turn on all electric power to the appliance (if applicable).
13. Set REMOTE/OFF/ON switch to desired setting.

TO TURN OFF GAS TO FIREPLACE

1. Set REMOTE/OFF/ON switch to OFF.
2. Turn off all electric power to the appliance if service is to be performed (if applicable).
3. Lower bottom louver assembly.
4. Push in gas control knob slightly and turn clockwise to "OFF." Do not force.
5. Close bottom louver assembly.

STANDING PILOT TROUBLESHOOTING

With proper installation and maintenance, your new Direct Vent Gas Fireplace will provide years of trouble-free service. If you do experience a problem, refer to the Trouble Shooting Guide below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

1. **Spark ignitor will not light pilot after repeated triggering of piezo ignitor button.**
   a. Defective ignitor (no spark electrode)
      —Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
   b. No gas or low gas pressure.
      —Check remote shut off valves from fireplace. Usually there is a valve near the main. There can be more than one (1) valve between the fireplace and main.
      —Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe, or low line pressure. Consult with plumber or gas supplier.
   c. No LP in tank.
      —Check LP (propane) tank. Refill tank.
2. **Pilot will not stay lit after carefully following lighting instructions.**
   a. Defective thermocouple.
      —Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement.
      —Ensure the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn). Faulty thermocouple if reading is below specified minimum of 15 millivolts.
      —Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the end of the thermocouple and the other millivolt meter lead wire on the thermocouple copper wire. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 millivolt, replace the thermocouple.
   b. Defective valve.
      —If thermocouple is producing more than 15 millivolts, replace faulty valve.
3. **Pilot burning, no gas to burner, valve knob "ON", REMOTE/OFF/ON switch "ON."**
   a. REMOTE/OFF/ON switch, wall switch, remote control or wires defective.
      —Check REMOTE/OFF/ON switch and wires for proper connections. Place jumper wires across terminal at switch. If burner comes on, replace defective switch. If OK, place jumper wires across switch wires at gas valve-if burner comes on, wires are faulty or connections are bad.
   b. Thermopile may not be generating sufficient millivolts.
      —If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.
      —Be sure the wire connections from the thermopile at the gas valve terminals are tight and the thermopile is fully inserted into the pilot bracket.
      —Check the thermopile with a millivolt meter. Take the reading at TH-TP & TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the PILOT position, with the pilot lit, and the REMOTE/OFF/ON switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.
      —With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts minimum. Replace the thermopile if the reading is below the minimum.
   c. Defective valve.
      —Turn valve knob to ON. Place REMOTE/OFF/ON switch to ON. Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 200 millivolts. If the reading is okay and the main burner does not ignite, replace the gas valve.
   d. Plugged main burner orifice.
      —Check main burner orifice for blockage and remove.
4. **Frequent pilot outage problem.**
   a. Pilot flame may be too high or too low, or blowing (high), causing pilot safety to drop out.
      —Clean and adjust flame for maximum flame impingement on the thermocouple. Follow lighting instructions carefully.
5. **The pilot and main burner extinguish while in operation.**
   a. No LP (Propane) in tank.
   Check LP (Propane) tank. Refill fuel tank.
   b. Inner vent pipe leaking exhaust gases back into system
      —Check for leaks.
   c. Glass too loose, gasket leaks in corners after usage.
      —Be certain glass assembly is installed correctly.
   d. Horizontal vent improperly pitched.
      —The horizontal vent cap should slope down only enough to prevent any water from entering the unit. The maximum downwards slope is 1/4 inch.
   e. Bad thermopile or thermocouple.
      —Replace if necessary.
   f. Improper vent cap installation.
      —Check for proper installation and freedom from debris or blockage.
6. **Glass soots.**
   a. Flame impingement on logs.
      — Check and adjust "log" position. Contact Empire Comfort Systems, Inc.
   b. Debris around throat of main burner.
      —Inspect the opening at the base of the main burner. It is imperative that NO material be placed in this opening.
7. **Flame burns blue and lifts off main burner.**
   a. Insufficient oxygen being supplied.
      —Check to make sure vent cap is installed properly and free of debris. Make sure that vent system joints are tight and have no leaks.
      —Check to make sure that no material has been placed at the main burner base.

MAINTENANCE AND SERVICE

PLEASE NOTE

It is normal for appliances fabricated of steel to give off some expansion and/or contraction noise during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.

Please ensure that your room is well ventilated - open all windows.

It is recommended that you burn your fireplace for at least six (6) hours the first time you use it. If optional fan kit has been installed, place fan in the “OFF” position during this time.

IMPORTANT: Turn off gas before servicing appliance. It is recommended that a qualified service person perform these check-ups at the beginning of each heating season.

- Clean Burner and Control Compartment
  Keep the control compartment, logs, and burner areas surrounding the logs clean by vacuuming or brushing at least twice a year.

  Cleaning Procedure
  1. Turn off pilot light at gas valve.
  2. Remove glass front. (See Glass Removal)
  3. Vacuum burner compartment.
  4. Reinstall glass front.
  5. Ignite pilot. (See Lighting Instructions)
  6. Operate the pilot burner. If it appears abnormal call a service person.
- Check Vent System
  The appliance and venting system should be inspected before initial use and at least annually by a qualified service person. Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-abrasive household cleaner and warm water (we recommend gas fireplace glass cleaner). After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.

General Glass Information

WARNING: Do not operate appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

Only glass approved for use by the manufacturer in fireplace may be used for replacement. The glass replacement should be done by a licensed or qualified service person.

WARNING:

1. The use of substitute glass will void all product warranties.
2. Care must be taken to avoid breakage of the glass.
3. Under no circumstances should this appliance be operated without the glass front or with a broken glass front. Replacement of the glass (with gasket) as supplied by the manufacturer should be done by a qualified service person.
4. Do not abuse the glass by striking or hitting the glass.

WARNING: Do not use abrasive cleaners on glass. Do not attempt to clean glass when glass is hot.

Glass Removal

1. Remove top louver, grasp louver, lift and pull forward.
2. Lower bottom louver, lift and pull forward.
3. Release two glass frame clamps at bottom of firebox.
4. Remove glass door assembly.

Glass Replacement

1. Place glass frame onto firebox.
2. Attach two glass frame clamps at bottom of firebox.
3. Align clips on top louver with slots on front posts. Replace top louver into fireplace.
4. Close bottom louver.

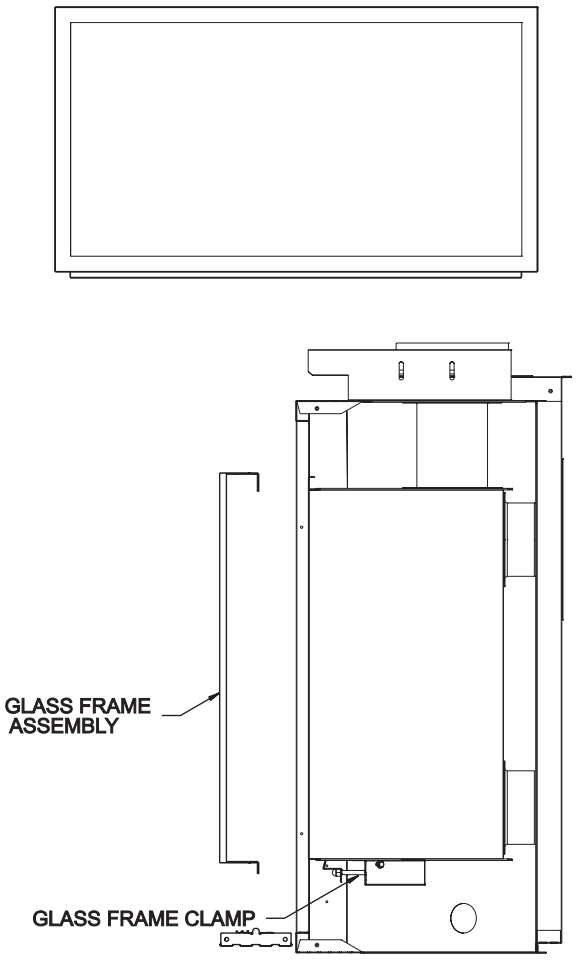


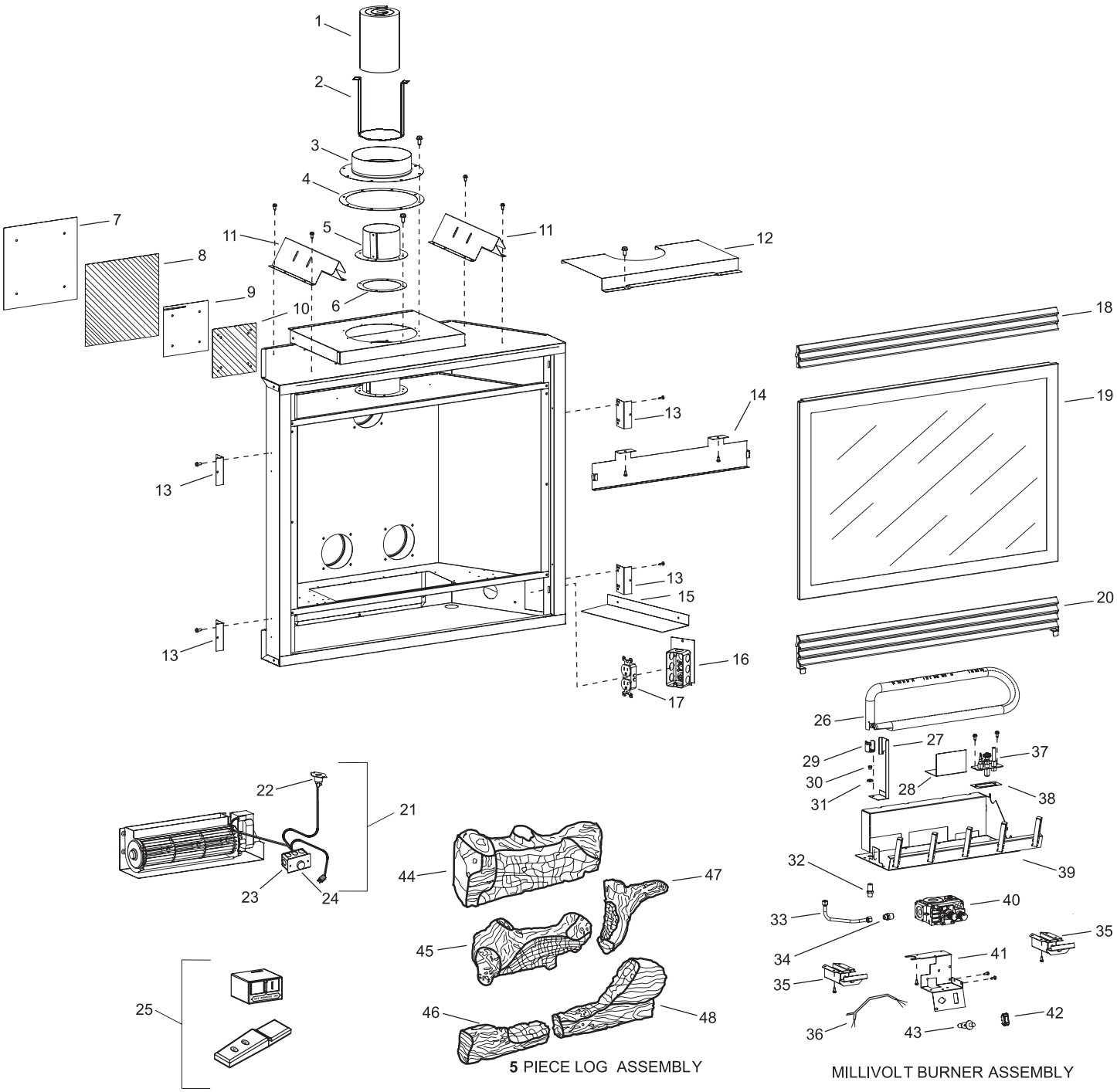
Figure 52

PARTS LIST

INDEX NO.	PART NO.		DESCRIPTION
	ADVD32	ADVD36	
1	R-7654	R-7654	FLUE INSULATION
2	17425	17425	FLUE INSULATION RETAINER
3	R-7566	R-7566	INLET VENT ADAPTOR
4	R-7573	R-7573	INLET VENT GASKET
5	17155	17155	FLUE OUTLET ASSEMBLY
6	M163	M163	FLUE CONNECTOR GASKET
7	17142	17142	VENT COVER PLATE
8	R-7575	R-7575	VENT COVER PLATE GASKET
9	17141	17141	FLUE COVER PLATE
10	R-7574	R-7574	FLUE OUTLET GASKET
11	17301	17149	TOP STANDOFF (2 required)
12	17317	17317	TOP SHIELD
13	10554	10554	NAILING FLANGE (4 required)
14	17174	17143	BAFFLE, FLUE VENT
15	17357	17357	JUNCTION BOX SHIELD
16	17162	17162	JUNCTION BOX ASSEMBLY
17	R-3492	R-3492	3-PRONG RECEPTACLE
18	17169	17127	LOUVER ASSEMBLY - UPPER
19	17172	17134	GLASS DOOR FRAME ASSEMBLY
20	17170	17128	LOUVER ASSEMBLY - LOWER
21	FBB4	FBB4	BLOWER ASSEMBLY - COMPLETE
22	R-7649	R-7649	TEMPERATURE SENSOR SWITCH (FAN CONTROL)
23	R-4186	R-4186	SWITCH (VARIABLE SPEED CONTROL)
24	R-4192	R-4192	KNOB, SWITCH

INDEX NO.	PART NO.		DESCRIPTION
	ADVD32	ADVD36	
25	FRBC	FRBC	REMOTE CONTROL & RECEIVER
26	R-7580	R-7537	BURNER TUBE
27	17235	17235	LOG LOCATOR BRACKET
28	17318	17318	PILOT SHIELD
29	R-7624	R-7624	AIR SHUTTER
30	P-254	P-288	ORIFICE (NAT)
30	P-287	P-182	ORIFICE (LP)
31	R-7575	R-7575	JAMB NUT
32	P-212	P-212	ORIFICE FITTING
33	17258	17258	TUBING ASSEMBLY
34	R-2423	R-2423	MALE CONNECTOR
35	16223	16223	SPRING LATCH ASSEMBLY
36	R-10947	R-10947	WIRE ASSEMBLY
37	R-5705	R-5705	PILOT (NAT)
38	R-7617	R-7617	PILOT GASKET (SIT PILOT)
39	17185	17158	BURNER BASE PLATE ASSEMBLY
40	R-7577	R-7577	VALVE, SIT GAS - NAT
40	R-7578	R-7578	VALVE, SIT GAS - L.P.
41	17161	17161	VALVE BRACKET
42	R-3436	R-3436	REMOTE/OFF/ON SWITCH
43	R-2708	R-2708	PIEZO IGNITOR
44	R-7587	R-7587	REAR LOG
45	R-7586	R-7555	MIDDLE LOG
46	R-7585	R-7553	FRONT LEFT LOG
47	R-7588	R-7557	Y TWIG
48	R-7554	R-7554	FRONT RIGHT LOG
N/S	15999	15999	EMBER MATERIAL

PARTS VIEW



5 PIECE LOG ASSEMBLY

MILLIVOLT BURNER ASSEMBLY

GAS CONVERSION INSTRUCTIONS

FOR FIREPLACE MODEL: ADVD32FP34N, USE CONVERSION KIT PART NUMBER 19553 (Included with Fireplace)
FOR FIREPLACE MODEL: ADVD36FP34N, USE CONVERSION KIT PART NUMBER 19554 (Included with Fireplace)

FOR CONVERSION TO **LIQUEFIED PETROLEUM (LP) GAS**

WARNING: This conversion kit is to be installed by an Empire Comfort Systems, Inc., distributor (or other qualified agency[1])*in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

*The term "qualified individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation of gas piping or (b) the connection, installation repair, or servicing of equipment, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.
CHECK SAFETY SHUTDOWN PERFORMANCE

WARNING

Perform the safety shutdown test anytime work is done on a gas system to avoid the possibility of fire or explosion with property damage, personal injury or loss of life.

SAFETY SHUTDOWN SYSTEM

Continuous Ignition Systems (Standing Pilot)

1. Place gas control knob in PILOT position. Main burner should go off and pilot should remain lit.
2. Extinguish pilot flame. Pilot gas flow should stop within 30 seconds. Safety shutoff of pilot gas proves complete shutdown since safety shutoff valve blocks flow of gas to main burner and pilot.
3. Relight pilot burner and operate system through one complete cycle to make sure all controls operate properly.

PARTS LIST			
PART DESCRIPTION	KIT 19553	KIT 19954	QUANTITY SUPPLIED
Pilot Orifice	R-7658	R-7658	1 EA.
Main Burner Orifice	P-287	P-182	1
Sit Gas Valve Conversion Kit	R-7657	R-7657	1
Gas Conversion Label	19553-2136	19954-2136	1

Gas input for direct vent fireplace converted to Propane (LP) gas:
ADVD32 18,000 BTU per hour
ADVD36 20,000 BTU per hour

The direct vent gas fireplace when converted to Propane (LP) gas will have a manifold pressure approximately 10.0" w.c. (2.49 kPa) for a maximum input or 4.5" w.c. (1.120 kPa) for a minimum input at the valve outlet with the inlet pressure to the valve from a minimum of 10.8" w.c. (2.68 kPa) for the purpose of input adjustment to a maximum of 14.0" w.c. (3.484 kPa).

GAS CONVERSION INSTRUCTIONS (continued)

FOR FIREPLACE MODEL: ADVD32FP34N, USE CONVERSION KIT PART NUMBER 19553 (Included with Fireplace)
FOR FIREPLACE MODEL: ADVD36FP34N, USE CONVERSION KIT PART NUMBER 19554 (Included with Fireplace)

INSTRUCTIONS FOR CONVERSION

1. If fireplace is installed, turn OFF gas and electric supply to fireplace before making gas conversion.
2. Remove top louver, grasp louver, lift and pull forward.
3. Lower bottom louver, lift and hinge forward to remove.
4. Release two glass frame spring clamps at bottom of firebox and remove glass door assembly.
5. Remove logs from burner assembly.
6. Remove one (1) 8x¼" screw from air shutter. (Located at the left rear of burner.)
7. Located to the right of the pilot is a burner hold-down tab, using a pliers, bend burner hold-down tab away from the main burner.
8. Remove main burner by pivoting main burner up and forward, then slide main burner from left to right. Be careful as you remove main burner in order to protect the pilot from being damaged.
9. Remove (unscrew) the air shutter from orifice fitting.
10. Remove (unscrew) the Natural gas main burner orifice from orifice fitting.
11. Install Propane(LP) gas main burner orifice into orifice fitting: for ADVD32 **ORIFICE MARKED 56**
    for ADVD36 **ORIFICE MARKED 55**
12. Replace air shutter onto orifice fitting. Air shutter must be threaded and bottomed-out onto orifice fitting.
13. Replace main burner onto burner assembly. Slide main burner from right to left into left end burner locator, pivot main burner away from you and reconnect burner into air shutter.
14. Adjust air shutter setting to: **1/4" OPEN** on ADVD32 and ADVD36, then secure the air shutter to main burner with one (1) 8¼" screw from Step 6.
15. To convert pilot orifice, pull top of pilot hood off to expose orifice.
16. Remove Natural gas pilot orifice from pilot burner with a properly sized Hex wrench.
17. Insert **Appropriate propane (LP) gas pilot orifice** into pilot burner and secure.
18. Replace pilot hood to pilot assembly.
19. Convert gas valve as instructed in **S.I.T. Propane(LP) gas valve conversion kit.**
20. The converted fireplace must be connected to a supply of the conversion gas and checked for leaks at all connections.
21. Refer to Log and Ember Placement in your Installation Instructions and Owner's Manual to replace logs onto burner assembly.
22. The fireplace must be checked to ensure it is operating at the correct pressure of 10.0" w.c.The Air Shutter may require minor adjustment to produce light yellow rear flame appearance. Replace ember material over front burner parts.
23. Replace glass onto firebox.
24. Secure the two glass frame spring clamps at bottom of firebox.
25. **Fill out the gas conversion label with date converted and installer name. Then affix label near valve on inner bottom of fireplace.**
26. Align the tabs on top louver brackets with slots in front posts to secure top louver.
27. Close bottom louver. Lift slightly to engage the end tabs into the slots in fireplace sides to close bottom louver.
28. Gas conversion is completed.

Note: The main burner flame and pilot burner flame must be checked for proper flame characteristics, as outlined in the Installation Instructions and Owner's Manual.

Verifying Input Rate of Converted Fireplace

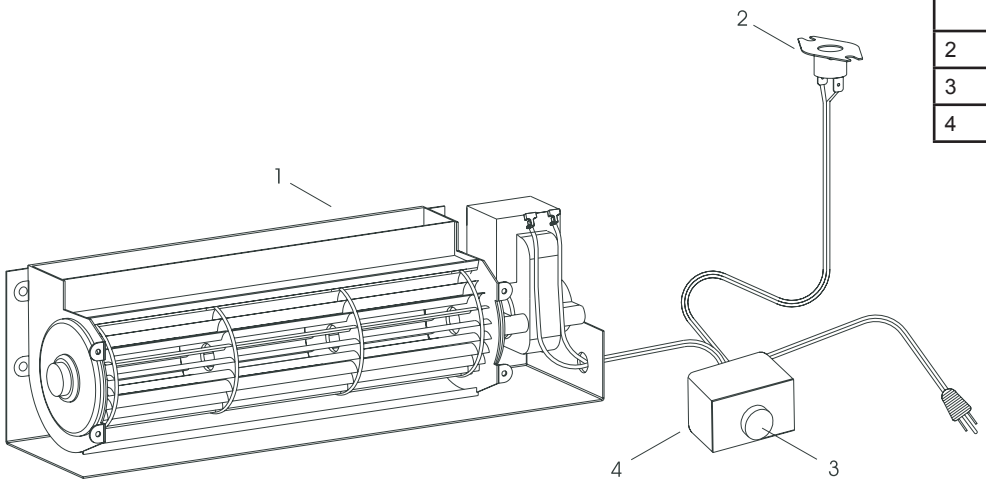
The input of the fireplace must be checked as follows:

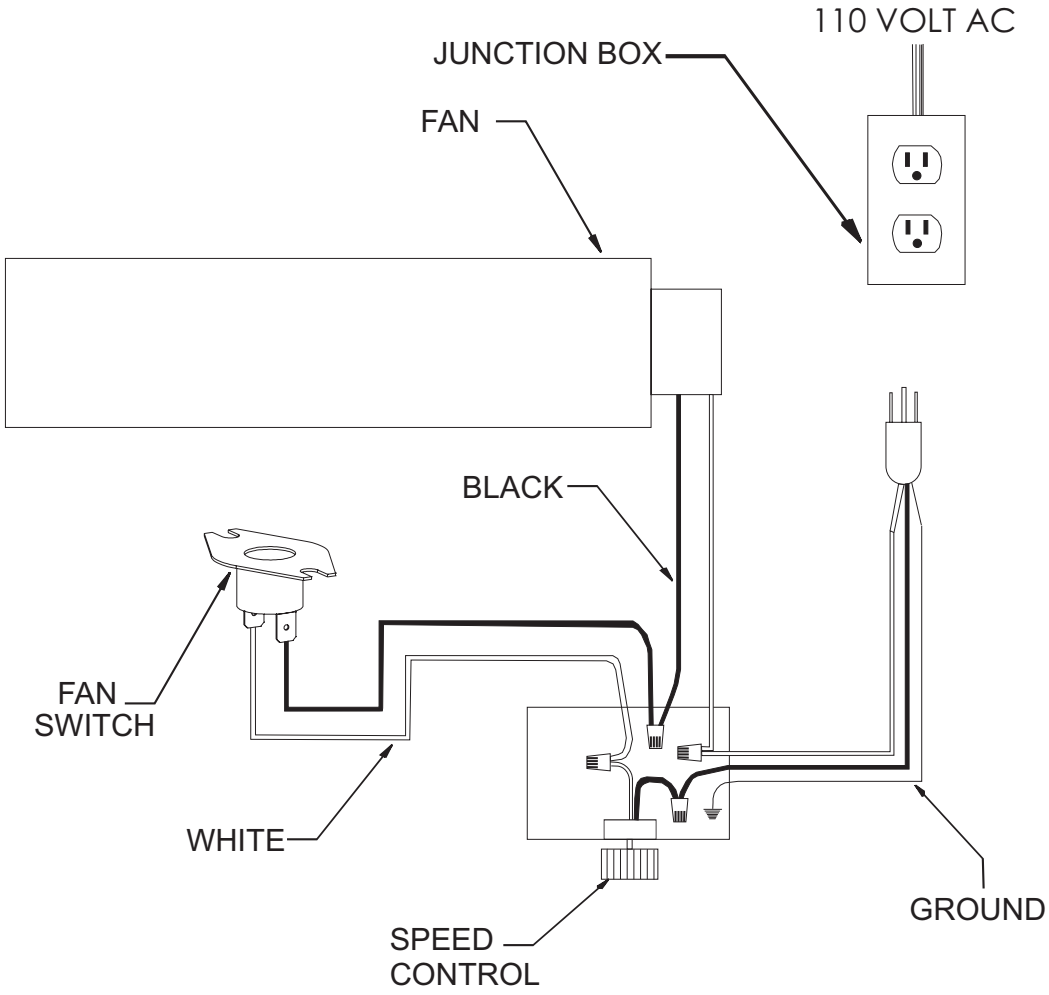
1. Turn off all other gas appliances. Clock the gas meter and determine the number of seconds required to consume one cubic foot of gas.
2. 3600 ÷ time (in seconds) = cu. Ft. per hour.
3. Then cu. Ft. per hour x heating value of gas = input rate (Btuh). On installation without gas meters, check manifold for proper pressure.

If fireplace is not installed or warranty card has not been returned to Empire Comfort System's, Inc., check off type of gas converted to on card. Also, indicated conversion by adding "Conv." behind type of gas.

FBB4 VARIABLE SPEED BLOWER INSTALLATION

1	FBB4	BLOWER ASSEMBLY COMPLETE
2	R7649	FAN CONTROL
3	R4192	SPEED CONTROL KNOB
4	R4186	SPEED CONTROL





JUNCTION BOX WIRING INSTALLATION INSTRUCTIONS

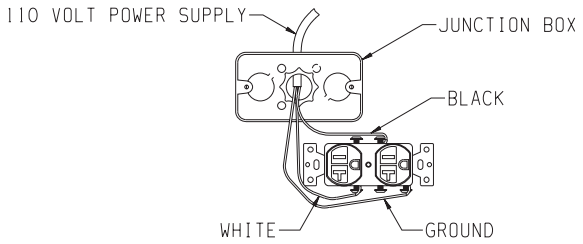
CAUTION: ALL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN AND SHALL BE IN COMPLIANCE WITH ALL LOCAL, CITY AND STATE BUILDING CODES. BEFORE MAKING THE ELECTRICAL CONNECTION, MAKE SURE THAT MAIN POWER SUPPLY IS DISCONNECTED. THE APPLIANCE, WHEN INSTALLED, MUST BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH LOCAL CODES OR, IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL ELECTRICAL CODE ANSI/NFPA 70 (LATEST EDITION).

A factory installed junction box is located on the lower right side of the fireplace. Wiring must be fed to the junction box and attached to the receptacle that is provided. Leave approximately 6" of wire in the junction box for connection.

Attach black wire to one side of the receptacle and white wire to opposite side of receptacle. The ground wire should be attached to the green (ground) screw.

Install the receptacle into the junction box. Attach cover plate.

JUNCTION BOX CONNECTIONS

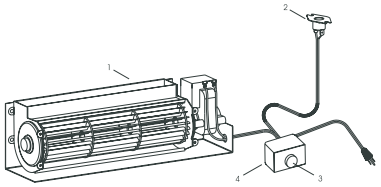
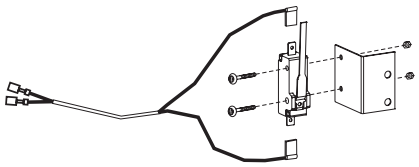
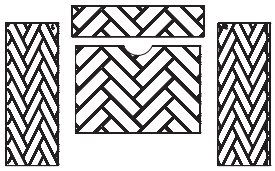
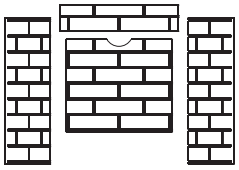


OPTIONAL BRICK LINER INSTALLATION INSTRUCTIONS

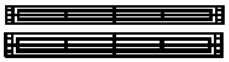
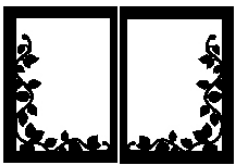
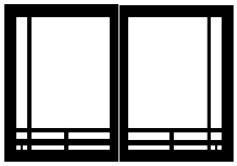
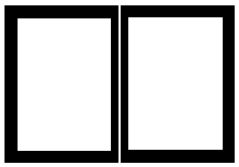
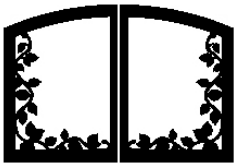
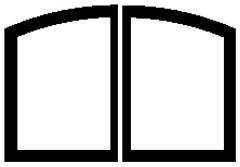
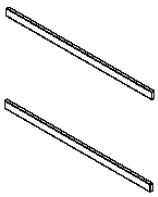
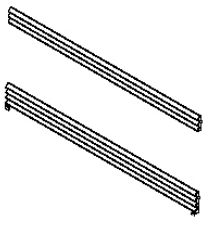
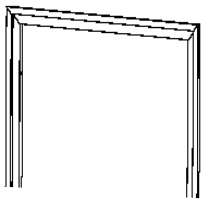
1. Using gloves, unpack liner components and check for damaged or missing components.
2. Lower bottom louver and remove upper louver on fireplace.
3. Remove glass frame assembly from fireplace.
4. Remove rear logs from burner assembly.
5. Place brick panel (rear) against rear wall in fireplace.
   Note: The top edge will have a half-moon cutout relief to match up with the rear flue vent hole.
6. While holding finished edge on brick panel (side), place brick panel (sides) against side walls in fireplace. Move side panels rearward until the back edge meets the rear brick panel. Slide side brick panels down so they rest on firebox bottom.
7. Align grout lines on top brick panel with the grout lines on the side brick panels. Place the top brick panel into brick panel holder. With needle-nose pliers, carefully bend hold-down tabs on brick panel holder over the edges of the top brick panel. The hold-down tabs will securely hold the top brick panel in place.
8. Replace rear logs onto burner assembly. (Refer to log placement, page 28.
9. Attach glass frame assembly onto fireplace.
10. Raise bottom louver and replace top louver onto fireplace.
11. Installation of optional brick liner is complete.

ACCESSORIES

The following accessory parts can be obtained from your American Hearth dealer. If you need additional information beyond what your dealer can furnish, contact Empire Comfort Systems Inc., Nine Eighteen Freeburg Ave., Belleville, Illinois 62220-2623.

Accessory	Description	Model Number
Fan Kit 	This fan kit was designed to provide forced air flow. (Factory installed standard equipment on fireplace Models ADVD32FP34N and ADVD36FP34N)	Variable Speed FBB4
	Door Switch may be employed as required when the fireplace is installed in a bedroom.	DVX
Simulated Brick Panels 	The simulated brick panels were designed to enhance the appearance of your fireplace, imitating the look of authentic masonry. HERRINGBONE	DVP1SH(ADVD32) DVP2SH(ADVD36)
Simulated Brick Panels 	The simulated brick panels were designed to enhance the appearance of your fireplace, imitating the look of authentic masonry. AGED BRICK	DVP1SA(ADVD32) DVP2SA(ADVD36)

DECORATIVE ACCESSORIES

 Decorative Louver Mission	Decorative Louver Arch	Decorative Louver Leaf	
Decorative Frame Rectangle with hinges	 Decorative Door Leaf Rectangle	 Decorative Door Mission Rectangle	 Decorative Door Plain Rectangle
Decorative Frame Arch with hinges	 Decorative Door Leaf Arch	Decorative Door Mission Arch	 Decorative Door Plain Arch
Decorative Frame Arch without hinges only Black	 Window Trim	 STD Louvers 45 Deg	 Outside Frame Kits

MASTER PARTS DISTRIBUTOR LIST

To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at www.empirecomfort.com. To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem with the unit.

To Order Parts After the Warranty Period, please contact your dealer or one of the Master Parts Distributors listed below. This list changes from time to time. For the current list, please click on the Master Parts button at www.empirecomfort.com.

Please note: Master Parts Distributors are independent businesses that stock the most commonly ordered Original Equipment repair parts for Heaters, Grills, and Fireplaces manufactured by Empire Comfort Systems Inc.

Dey Distributing
1401 Willow Lake Boulevard
Vadnais Heights, MN 55101

Phone: 651-490-9191
Toll Free: 800-397-1339
Website: www.deydistributing.com
Parts: Heater & Hearth

East Coast Energy Products
10 East Route 36
West Long Branch, NJ 07764

Phone: 732-870-8809
Toll Free: 800-755-8809
Fax: 732-870-8811
Website: www.eastcoastenergy.com
Parts: Heater & Hearth and Grills

Victor Division of F. W. Webb Company
200 Locust Street
Hartford, CT 06114

Phone: 860-722-2433
Toll Free: 800-243-9360
Fax: 860-293-0479
Toll Free Fax: 800-274-2004
Websites: www.fwwebb.com & www.victormfg.com
Parts: Heater & Hearth and Grills

HOW TO ORDER REPAIR PARTS

Parts Not Under Warranty

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

Warranty Parts

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information . . .

Appliance Model Number _____ Part Description _____

Appliance Serial Number _____ Part Number _____

Type of Gas (Propane or Natural) _____

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

Shipments contingent upon strikes, fires and all causes beyond our control.

APPLIANCE SERVICE HISTORY

Date	Dealer Name	Service Technician Name	Service Performed/Notes

Empire Comfort Systems Inc.
918 Freeburg Ave. Belleville, IL 62220

If you have a general question about our products, please e-mail us at info@empirecomfort.com.
If you have a service or repair question, please contact your dealer.

www.empirecomfort.com